

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-74261-1

Client Project/Site: Groundwater PFAS testing

For:

Eastern Research Group, Inc.
14555 Avion Parkway
Suite 200
Chantilly, Virginia 20151-1102

Attn: Michelle Spiezio



Authorized for release by:
3/8/2022 11:48:51 AM

Marrison Williams, Project Manager
(717)556-7246
Marrison.Williams@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Marrison Williams
Project Manager
3/8/2022 11:48:51 AM



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	9
Isotope Dilution Summary	31
QC Sample Results	34
QC Association Summary	46
Lab Chronicle	47
Certification Summary	49
Method Summary	51
Sample Summary	52
Chain of Custody	53
Receipt Checklists	54

Definitions/Glossary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Job ID: 410-74261-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-74261-1

Receipt

The samples were received on 2/25/2022 11:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Receipt Exceptions

The following samples have two total containers on the COC, but six total containers were received.

DPT-21-GW (410-74261-2) and DPT-22-GW (410-74261-3)

PFAS

Method PFC_IDA: Poor recoveries for PS Acid and Eve Acid were observed in the laboratory control spike samples associated with samples: DPT-28-GW (410-74261-1), DPT-21-GW (410-74261-2), DPT-22-GW (410-74261-3), DPT-23-GW (410-74261-4), DPT-24-GW (410-74261-5), Field Blank-GW (410-74261-6), Equipment Blank-GW (410-74261-7) and Trip Blank (410-74261-8). The results reported for PS acid and Eve Acid should be considered estimated. The recovery for target analytes is outside of the QC acceptance limits in the laboratory control spike associated with the following samples: DPT-28-GW (410-74261-1), DPT-21-GW (410-74261-2), DPT-22-GW (410-74261-3), DPT-23-GW (410-74261-4), DPT-24-GW (410-74261-5), Field Blank-GW (410-74261-6), Equipment Blank-GW (410-74261-7) and Trip Blank (410-74261-8). The QC limits are advisory; therefore, the data is reported and results should be considered estimated.

Method PFC_IDA: Target analyte 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) recovered outside of the QC acceptance limits in the closing continuing calibration verification standard associated with the following sample: Trip Blank (410-74261-8). Since the recovery is biased high and 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) is not detected in the sample, the data is reported.

Method PFC_IDA: The injection standard peak areas are outside of the QC acceptance limits in both the initial injection and the re-injection of the following samples: DPT-22-GW (410-74261-3), DPT-23-GW (410-74261-4) and DPT-24-GW (410-74261-5). The values here are from the initial injection of the sample.

Method PFC_IDA: Reporting limits were raised for the following sample: DPT-24-GW (410-74261-5) due to limited sample volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-28-GW

Lab Sample ID: 410-74261-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.09	J cn	2.67	0.445	ng/L	1		537 IDA	Total/NA
Perfluoro-2-(perfluoroethoxy)propionic acid	1.35	J cn	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluoro-2-methoxyacetic acid (PFMOAA)	2.78	*+ cn	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	15.6	cn	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PMPA)	3.58	cn	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluoro-4-isopropoxybutanoic acid (PFIPBA)	0.402	J cn	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.79	cn	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	14.7	cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	3.78	cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	3.20	cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	9.89	cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	4.12	cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	3.83	cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	0.634	J cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	46.1	cn	1.78	0.445	ng/L	1		537 IDA	Total/NA
Perfluoropropanesulfonic acid	2.13	cn	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - DL	505	cn	44.5	17.8	ng/L	10		537 IDA	Total/NA
Perfluoropropionic Acid (PFPrA) - DL	1960	cn	44.5	17.8	ng/L	10		537 IDA	Total/NA

Client Sample ID: DPT-21-GW

Lab Sample ID: 410-74261-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.59	J cn	2.65	0.442	ng/L	1		537 IDA	Total/NA
Perfluoro-2-(perfluoroethoxy)propionic acid	1.58	J F1 cn	1.77	0.177	ng/L	1		537 IDA	Total/NA
Perfluoro-2-methoxyacetic acid (PFMOAA)	3.04	F1 *+ cn	1.77	0.177	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	15.9	F1 cn	1.77	0.177	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PMPA)	3.80	F1 cn	1.77	0.177	ng/L	1		537 IDA	Total/NA
Perfluoro-4-isopropoxybutanoic acid (PFIPBA)	0.399	J F1 cn	1.77	0.177	ng/L	1		537 IDA	Total/NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.78	cn	1.77	0.177	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	14.5	cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	3.94	cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	3.55	cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	10.1	cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	4.52	cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	4.11	cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluoropentanesulfonic acid	0.718	J cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	48.4	cn	1.77	0.442	ng/L	1		537 IDA	Total/NA
Perfluoropropanesulfonic acid	2.31	cn	1.77	0.177	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - DL	497	cn	44.2	17.7	ng/L	10		537 IDA	Total/NA
Perfluoropropionic Acid (PFPrA) - DL	1920	cn	44.2	17.7	ng/L	10		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-22-GW

Lab Sample ID: 410-74261-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	18.8	cn	2.91	0.486	ng/L	1		537 IDA	Total/NA
Perfluoro-2-(perfluoroethoxy)propionic acid	8.93	cn	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluoro-2-methoxyacetic acid (PFMOAA)	16.0	*+ cn	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	68.0	cn	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PMPA)	25.3	cn	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluoro-4-isopropoxybutanoic acid (PFIpOBA)	0.905	J cn	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	17.3	cn	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	19.8	cn	1.94	0.486	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	1.75	J cn	1.94	0.486	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.805	J cn	1.94	0.486	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	6.98	cn	1.94	0.486	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	3.47	cn	1.94	0.486	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	2.48	cn	1.94	0.486	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	63.7	cn	1.94	0.486	ng/L	1		537 IDA	Total/NA
Perfluoropropanesulfonic acid	5.23	cn	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - DL	1520	cn	48.6	19.4	ng/L	10		537 IDA	Total/NA
Perfluoropropionic Acid (PFPrA) - DL	3540	cn	48.6	19.4	ng/L	10		537 IDA	Total/NA

Client Sample ID: DPT-23-GW

Lab Sample ID: 410-74261-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.48	J cn	2.93	0.488	ng/L	1		537 IDA	Total/NA
Perfluoro-2-(perfluoroethoxy)propionic acid	2.70	cn	1.95	0.195	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	11.9	cn	1.95	0.195	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PMPA)	5.97	cn	1.95	0.195	ng/L	1		537 IDA	Total/NA
Perfluoro-4-isopropoxybutanoic acid (PFIpOBA)	0.497	J cn	1.95	0.195	ng/L	1		537 IDA	Total/NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.97	cn	1.95	0.195	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	5.99	cn	1.95	0.488	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	349	cn	4.88	1.95	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.923	J cn	1.95	0.488	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	2.73	I cn	1.95	0.488	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.75	J cn	1.95	0.488	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	17.6	cn	1.95	0.488	ng/L	1		537 IDA	Total/NA
Perfluoropropanesulfonic acid	1.98	cn	1.95	0.195	ng/L	1		537 IDA	Total/NA
Perfluoropropionic Acid (PFPrA) - DL	373	cn	48.8	19.5	ng/L	10		537 IDA	Total/NA

Client Sample ID: DPT-24-GW

Lab Sample ID: 410-74261-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	18.4	cn	3.04	0.507	ng/L	1		537 IDA	Total/NA
Perfluoro-2-methoxyacetic acid (PFMOAA)	9.94	*+ cn	2.03	0.203	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-24-GW (Continued)

Lab Sample ID: 410-74261-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoro-3-methoxypropanoic acid (PFMPA)	83.3	cn	2.03	0.203	ng/L	1		537 IDA	Total/NA
Perfluoro-3-methoxypropanoic acid (PMPA)	21.7	cn	2.03	0.203	ng/L	1		537 IDA	Total/NA
Perfluoro-4-isopropoxybutanoic acid (PFIPBA)	1.04	J cn	2.03	0.203	ng/L	1		537 IDA	Total/NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	14.4	cn	2.03	0.203	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	31.3	cn	2.03	0.507	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	2.53	I cn	2.03	0.507	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.720	J cn	2.03	0.507	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	11.0	cn	2.03	0.507	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.91	J cn	2.03	0.507	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	3.69	cn	2.03	0.507	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	50.7	cn	2.03	0.507	ng/L	1		537 IDA	Total/NA
Perfluoropropanesulfonic acid	7.04	cn	2.03	0.203	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - DL	1030	cn	50.7	20.3	ng/L	10		537 IDA	Total/NA
Perfluoropropionic Acid (PFPrA) - DL	2320	cn	50.7	20.3	ng/L	10		537 IDA	Total/NA

Client Sample ID: Field Blank-GW

Lab Sample ID: 410-74261-6

No Detections.

Client Sample ID: Equipment Blank-GW

Lab Sample ID: 410-74261-7

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 410-74261-8

No Detections.

This Detection Summary does not include radiochemical test results.

Euofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-28-GW

Lab Sample ID: 410-74261-1

Date Collected: 02/21/22 14:45

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluoroteler unsaturated acid	<0.623	cn	1.78	0.623	ng/L		03/01/22 15:23	03/04/22 02:42	1
10:2 Fluorotelomer carboxylic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.890	cn	4.45	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.267	*- cn	1.78	0.267	ng/L		03/01/22 15:23	03/04/22 02:42	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.267	cn	1.78	0.267	ng/L		03/01/22 15:23	03/04/22 02:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
4:2 Fluorotelomer sulfonic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
6:2 Fluoroteler unsaturated acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
6:2 Fluorotelomer carboxylic acid	<0.356	cn	1.78	0.356	ng/L		03/01/22 15:23	03/04/22 02:42	1
6:2 Fluorotelomer sulfonic acid	<1.78	cn	4.45	1.78	ng/L		03/01/22 15:23	03/04/22 02:42	1
8:2 Fluoroteler unsaturated acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
8:2 Fluorotelomer carboxylic acid	<0.356	cn	1.78	0.356	ng/L		03/01/22 15:23	03/04/22 02:42	1
8:2 Fluorotelomer sulfonic acid	<0.890	cn	2.67	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
EVE Acid	<2.67	*- cn	8.90	2.67	ng/L		03/01/22 15:23	03/04/22 02:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.09	J cn	2.67	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Hydro-EVE Acid	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Hydrolyzed PSDA	<0.801	cn	1.78	0.801	ng/L		03/01/22 15:23	03/04/22 02:42	1
Hydro-PS Acid	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
MTP	<1.78	** cn	4.45	1.78	ng/L		03/01/22 15:23	03/04/22 02:42	1
Nafion Byproduct 1 (Nafion BP1)	<2.67	*- cn	8.90	2.67	ng/L		03/01/22 15:23	03/04/22 02:42	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.890	cn	4.45	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<0.890	cn	2.67	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<0.445	cn	2.67	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.890	cn	2.67	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.890	cn	2.67	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<0.534	cn	1.78	0.534	ng/L		03/01/22 15:23	03/04/22 02:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
NVHOS	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.623	cn	1.78	0.623	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro(3,5-dioxaheptanoic) acid (PFO2HxA)	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-28-GW

Lab Sample ID: 410-74261-1

Date Collected: 02/21/22 14:45

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-2-(perfluoroethoxy)propionic acid	1.35	J cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	2.78	*+ cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.78	cn	4.45	1.78	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	15.6	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro-3-methoxypropanoic acid (PMPA)	3.58	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro-4-isopropoxybutanoic acid (PFIpOBA)	0.402	J cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.79	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorobutanesulfonic acid	14.7	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorodecanesulfonic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorodecanoic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorododecanesulfonic acid	<0.445	cn	2.67	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorododecanoic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoroheptanesulfonic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoroheptanoic acid	3.78	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorohexadecanoic acid	<0.890	cn	2.67	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorohexanesulfonic acid	3.20	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorohexanoic acid	9.89	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorononanesulfonic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorononanoic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorooctadecanoic acid	<0.890	cn	2.67	0.890	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorooctanesulfonamide	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorooctanesulfonic acid	4.12	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorooctanoic acid	3.83	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoropentanesulfonic acid	0.634	J cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoropentanoic acid	46.1	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoropropanesulfonic acid	2.13	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorotetradecanoic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluorotridecanoic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
Perfluoroundecanoic acid	<0.445	cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
R-EVE	<0.356	cn	1.78	0.356	ng/L		03/01/22 15:23	03/04/22 02:42	1
R-PSDA	<0.445	*- cn	1.78	0.445	ng/L		03/01/22 15:23	03/04/22 02:42	1
R-PSDCA	<0.178	cn	1.78	0.178	ng/L		03/01/22 15:23	03/04/22 02:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	101	cn	10 - 179	03/01/22 15:23	03/04/22 02:42	1
13C2-2H-Perfluoro-2-decenoic acid	68	cn	21 - 166	03/01/22 15:23	03/04/22 02:42	1
13C2-2H-Perfluoro-2-dodecenoic acid	69	cn	14 - 166	03/01/22 15:23	03/04/22 02:42	1
13C2-2H-Perfluoro-2-octenoic acid	68	cn	20 - 173	03/01/22 15:23	03/04/22 02:42	1
13C2-2-Perfluorodecylethanoic acid	149	cn	10 - 200	03/01/22 15:23	03/04/22 02:42	1
13C2-2-Perfluorohexylethanoic acid	165	cn	10 - 200	03/01/22 15:23	03/04/22 02:42	1
13C2-2-Perfluorooctylethanoic acid	149	cn	10 - 200	03/01/22 15:23	03/04/22 02:42	1
13C2-PFDoDA	94	cn	17 - 176	03/01/22 15:23	03/04/22 02:42	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-28-GW

Lab Sample ID: 410-74261-1

Date Collected: 02/21/22 14:45

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	75	cn	17 - 185	03/01/22 15:23	03/04/22 02:42	1
13C3 PFBS	127	cn	16 - 200	03/01/22 15:23	03/04/22 02:42	1
13C3 PFHxS	99	cn	28 - 188	03/01/22 15:23	03/04/22 02:42	1
13C4 PFBA	92	cn	42 - 165	03/01/22 15:23	03/04/22 02:42	1
13C4 PFHpA	94	cn	31 - 182	03/01/22 15:23	03/04/22 02:42	1
13C5 PFHxA	87	cn	24 - 179	03/01/22 15:23	03/04/22 02:42	1
13C5 PFPeA	119	cn	38 - 187	03/01/22 15:23	03/04/22 02:42	1
13C6 PFDA	99	cn	49 - 163	03/01/22 15:23	03/04/22 02:42	1
13C7 PFUnA	97	cn	34 - 174	03/01/22 15:23	03/04/22 02:42	1
13C8 FOSA	86	cn	10 - 168	03/01/22 15:23	03/04/22 02:42	1
13C8 PFOA	96	cn	48 - 162	03/01/22 15:23	03/04/22 02:42	1
13C8 PFOS	97	cn	51 - 159	03/01/22 15:23	03/04/22 02:42	1
13C9 PFNA	94	cn	51 - 167	03/01/22 15:23	03/04/22 02:42	1
d3-NMeFOSAA	93	cn	31 - 174	03/01/22 15:23	03/04/22 02:42	1
d3-NMePFOSA	48	cn	10 - 155	03/01/22 15:23	03/04/22 02:42	1
d5-NEtFOSAA	99	cn	29 - 195	03/01/22 15:23	03/04/22 02:42	1
d5-NEtPFOSA	52	cn	10 - 159	03/01/22 15:23	03/04/22 02:42	1
d7-N-MeFOSE-M	85	cn	10 - 178	03/01/22 15:23	03/04/22 02:42	1
d9-N-EtFOSE-M	82	cn	10 - 177	03/01/22 15:23	03/04/22 02:42	1
M2-4:2 FTS	97	cn	10 - 200	03/01/22 15:23	03/04/22 02:42	1
M2-6:2 FTS	110	cn	17 - 200	03/01/22 15:23	03/04/22 02:42	1
M2-8:2 FTS	84	cn	33 - 200	03/01/22 15:23	03/04/22 02:42	1

Method: 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	505	cn	44.5	17.8	ng/L		03/01/22 15:23	03/04/22 10:42	10
Perfluoropropionic Acid (PFPrA)	1960	cn	44.5	17.8	ng/L		03/01/22 15:23	03/04/22 10:42	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	104	cn	42 - 165	03/01/22 15:23	03/04/22 10:42	10

Client Sample ID: DPT-21-GW

Lab Sample ID: 410-74261-2

Date Collected: 02/21/22 17:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluorotelemer unsaturated acid	<0.619	cn	1.77	0.619	ng/L		03/01/22 15:23	03/04/22 02:53	1
10:2 Fluorotelomer carboxylic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.884	cn	4.42	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.265	F1 *- cn	1.77	0.265	ng/L		03/01/22 15:23	03/04/22 02:53	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.265	cn	1.77	0.265	ng/L		03/01/22 15:23	03/04/22 02:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
4:2 Fluorotelomer sulfonic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-21-GW

Lab Sample ID: 410-74261-2

Date Collected: 02/21/22 17:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelemer unsaturated acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
6:2 Fluorotelomer carboxylic acid	<0.354	cn	1.77	0.354	ng/L		03/01/22 15:23	03/04/22 02:53	1
6:2 Fluorotelomer sulfonic acid	<1.77	cn	4.42	1.77	ng/L		03/01/22 15:23	03/04/22 02:53	1
8:2 Fluorotelemer unsaturated acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
8:2 Fluorotelomer carboxylic acid	<0.354	cn	1.77	0.354	ng/L		03/01/22 15:23	03/04/22 02:53	1
8:2 Fluorotelomer sulfonic acid	<0.884	cn	2.65	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
EVE Acid	<2.65	F1 *- cn	8.84	2.65	ng/L		03/01/22 15:23	03/04/22 02:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.59	J cn	2.65	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Hydro-EVE Acid	<0.177	F1 cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Hydrolyzed PSDA	<0.796	F1 cn	1.77	0.796	ng/L		03/01/22 15:23	03/04/22 02:53	1
Hydro-PS Acid	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
MTP	<1.77	F1 *+ cn	4.42	1.77	ng/L		03/01/22 15:23	03/04/22 02:53	1
Nafion Byproduct 1 (Nafion BP1)	<2.65	F1 *- cn	8.84	2.65	ng/L		03/01/22 15:23	03/04/22 02:53	1
N-ethylperfluorooctane sulfonamide (NETFOSA)	<0.884	cn	4.42	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
N-ethylperfluorooctane sulfonamidoethanol (NETFOSE)	<0.884	cn	2.65	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
N-ethylperfluorooctanesulfonamidoac etic acid (NETFOSAA)	<0.442	cn	2.65	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.884	cn	2.65	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.884	cn	2.65	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<0.530	cn	1.77	0.530	ng/L		03/01/22 15:23	03/04/22 02:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
NVHOS	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.619	cn	1.77	0.619	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.177	F1 cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro(3,5-dioxaheptanoic) acid (PFO2HxA)	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-2- (perfluoroethoxy)propionic acid	1.58	J F1 cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	3.04	F1 *+ cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-3,5,7,9,11-pentaoxadodeca noic acid	<1.77	F1 cn	4.42	1.77	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	15.9	F1 cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-3-methoxypropanoic acid (PMPA)	3.80	F1 cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-4-isopropoxybutanoic acid (PFIPBA)	0.399	J F1 cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.78	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-21-GW

Lab Sample ID: 410-74261-2

Date Collected: 02/21/22 17:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid	14.5	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorodecanesulfonic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorodecanoic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorododecanesulfonic acid	<0.442	cn	2.65	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorododecanoic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoroheptanesulfonic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoroheptanoic acid	3.94	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorohexadecanoic acid	<0.884	cn	2.65	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorohexanesulfonic acid	3.55	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorohexanoic acid	10.1	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorononanesulfonic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorononanoic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorooctadecanoic acid	<0.884	cn	2.65	0.884	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorooctanesulfonamide	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorooctanesulfonic acid	4.52	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorooctanoic acid	4.11	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoropentanesulfonic acid	0.718	J cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoropentanoic acid	48.4	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoropropanesulfonic acid	2.31	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorotetradecanoic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluorotridecanoic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
Perfluoroundecanoic acid	<0.442	cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
R-EVE	<0.354	F1 cn	1.77	0.354	ng/L		03/01/22 15:23	03/04/22 02:53	1
R-PSDA	<0.442	F1 *- cn	1.77	0.442	ng/L		03/01/22 15:23	03/04/22 02:53	1
R-PSDCA	<0.177	cn	1.77	0.177	ng/L		03/01/22 15:23	03/04/22 02:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	102	cn	10 - 179	03/01/22 15:23	03/04/22 02:53	1
13C2-2H-Perfluoro-2-decenoic acid	69	cn	21 - 166	03/01/22 15:23	03/04/22 02:53	1
13C2-2H-Perfluoro-2-dodecenoic acid	73	cn	14 - 166	03/01/22 15:23	03/04/22 02:53	1
13C2-2H-Perfluoro-2-octenoic acid	67	cn	20 - 173	03/01/22 15:23	03/04/22 02:53	1
13C2-2-Perfluorodecylethanoic acid	155	cn	10 - 200	03/01/22 15:23	03/04/22 02:53	1
13C2-2-Perfluorohexylethanoic acid	165	cn	10 - 200	03/01/22 15:23	03/04/22 02:53	1
13C2-2-Perfluorooctylethanoic acid	151	cn	10 - 200	03/01/22 15:23	03/04/22 02:53	1
13C2-PFDoDA	93	cn	17 - 176	03/01/22 15:23	03/04/22 02:53	1
13C3 HFPO-DA	72	cn	17 - 185	03/01/22 15:23	03/04/22 02:53	1
13C3 PFBS	135	cn	16 - 200	03/01/22 15:23	03/04/22 02:53	1
13C3 PFHxS	100	cn	28 - 188	03/01/22 15:23	03/04/22 02:53	1
13C4 PFBA	95	cn	42 - 165	03/01/22 15:23	03/04/22 02:53	1
13C4 PFHpA	95	cn	31 - 182	03/01/22 15:23	03/04/22 02:53	1
13C5 PFHxA	91	cn	24 - 179	03/01/22 15:23	03/04/22 02:53	1
13C5 PFPeA	127	cn	38 - 187	03/01/22 15:23	03/04/22 02:53	1
13C6 PFDA	96	cn	49 - 163	03/01/22 15:23	03/04/22 02:53	1
13C7 PFUnA	90	cn	34 - 174	03/01/22 15:23	03/04/22 02:53	1
13C8 FOSA	83	cn	10 - 168	03/01/22 15:23	03/04/22 02:53	1
13C8 PFOA	98	cn	48 - 162	03/01/22 15:23	03/04/22 02:53	1
13C8 PFOS	99	cn	51 - 159	03/01/22 15:23	03/04/22 02:53	1
13C9 PFNA	96	cn	51 - 167	03/01/22 15:23	03/04/22 02:53	1
d3-NMeFOSAA	98	cn	31 - 174	03/01/22 15:23	03/04/22 02:53	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-21-GW

Lab Sample ID: 410-74261-2

Date Collected: 02/21/22 17:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	40	cn	10 - 155	03/01/22 15:23	03/04/22 02:53	1
d5-NEtFOSAA	101	cn	29 - 195	03/01/22 15:23	03/04/22 02:53	1
d5-NEtPFOSA	40	cn	10 - 159	03/01/22 15:23	03/04/22 02:53	1
d7-N-MeFOSE-M	79	cn	10 - 178	03/01/22 15:23	03/04/22 02:53	1
d9-N-EtFOSE-M	73	cn	10 - 177	03/01/22 15:23	03/04/22 02:53	1
M2-4:2 FTS	100	cn	10 - 200	03/01/22 15:23	03/04/22 02:53	1
M2-6:2 FTS	105	cn	17 - 200	03/01/22 15:23	03/04/22 02:53	1
M2-8:2 FTS	91	cn	33 - 200	03/01/22 15:23	03/04/22 02:53	1

Method: 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	497	cn	44.2	17.7	ng/L		03/01/22 15:23	03/04/22 10:54	10
Perfluoropropionic Acid (PFPrA)	1920	cn	44.2	17.7	ng/L		03/01/22 15:23	03/04/22 10:54	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78	cn	42 - 165	03/01/22 15:23	03/04/22 10:54	10

Client Sample ID: DPT-22-GW

Lab Sample ID: 410-74261-3

Date Collected: 02/22/22 12:20

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluorotelemer unsaturated acid	<0.680	cn	1.94	0.680	ng/L		03/01/22 15:23	03/04/22 03:27	1
10:2 Fluorotelomer carboxylic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.972	cn	4.86	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.291	*- cn	1.94	0.291	ng/L		03/01/22 15:23	03/04/22 03:27	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.291	cn	1.94	0.291	ng/L		03/01/22 15:23	03/04/22 03:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
4:2 Fluorotelomer sulfonic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
6:2 Fluorotelemer unsaturated acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
6:2 Fluorotelomer carboxylic acid	<0.389	cn	1.94	0.389	ng/L		03/01/22 15:23	03/04/22 03:27	1
6:2 Fluorotelomer sulfonic acid	<1.94	cn	4.86	1.94	ng/L		03/01/22 15:23	03/04/22 03:27	1
8:2 Fluorotelemer unsaturated acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
8:2 Fluorotelomer carboxylic acid	<0.389	cn	1.94	0.389	ng/L		03/01/22 15:23	03/04/22 03:27	1
8:2 Fluorotelomer sulfonic acid	<0.972	cn	2.91	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
EVE Acid	<2.91	*- cn	9.72	2.91	ng/L		03/01/22 15:23	03/04/22 03:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	18.8	cn	2.91	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Hydro-EVE Acid	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Hydrolyzed PSDA	<0.874	cn	1.94	0.874	ng/L		03/01/22 15:23	03/04/22 03:27	1
Hydro-PS Acid	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
MTP	<1.94	*+ cn	4.86	1.94	ng/L		03/01/22 15:23	03/04/22 03:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-22-GW

Lab Sample ID: 410-74261-3

Date Collected: 02/22/22 12:20

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nafion Byproduct 1 (Nafion BP1)	<2.91	*- cn	9.72	2.91	ng/L		03/01/22 15:23	03/04/22 03:27	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.972	cn	4.86	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<0.972	cn	2.91	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.486	cn	2.91	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.972	cn	2.91	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.972	cn	2.91	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.583	cn	1.94	0.583	ng/L		03/01/22 15:23	03/04/22 03:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
NVHOS	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro(3,5,7,9-tetraoxadecanoic acid (PFO4DA)	<0.680	cn	1.94	0.680	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro(3,5,7-trioxaoctanoic acid (PFO3OA)	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro(3,5-dioxaheptanoic acid (PFO2HxA)	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-2-(perfluoroethoxy)propionic acid	8.93	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	16.0	*+ cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.94	cn	4.86	1.94	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	68.0	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-3-methoxypropanoic acid (PMPA)	25.3	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)	0.905	J cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	17.3	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorobutanesulfonic acid	19.8	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorodecanesulfonic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorodecanoic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorododecanesulfonic acid	<0.486	cn	2.91	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorododecanoic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoroheptanesulfonic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoroheptanoic acid	1.75	J I cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorohexadecanoic acid	<0.972	cn	2.91	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorohexanesulfonic acid	0.805	J I cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorohexanoic acid	6.98	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoronanesulfonic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoronanoic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorooctadecanoic acid	<0.972	cn	2.91	0.972	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorooctanesulfonamide	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-22-GW

Lab Sample ID: 410-74261-3

Date Collected: 02/22/22 12:20

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	3.47	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorooctanoic acid	2.48	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoropentanesulfonic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoropentanoic acid	63.7	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoropropanesulfonic acid	5.23	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorotetradecanoic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluorotridecanoic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
Perfluoroundecanoic acid	<0.486	cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
R-EVE	<0.389	cn	1.94	0.389	ng/L		03/01/22 15:23	03/04/22 03:27	1
R-PSDA	<0.486	*- cn	1.94	0.486	ng/L		03/01/22 15:23	03/04/22 03:27	1
R-PSDCA	<0.194	cn	1.94	0.194	ng/L		03/01/22 15:23	03/04/22 03:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	90	cn	10 - 179	03/01/22 15:23	03/04/22 03:27	1
13C2-2H-Perfluoro-2-decenoic acid	60	cn	21 - 166	03/01/22 15:23	03/04/22 03:27	1
13C2-2H-Perfluoro-2-dodecenoic acid	67	cn	14 - 166	03/01/22 15:23	03/04/22 03:27	1
13C2-2H-Perfluoro-2-octenoic acid	63	cn	20 - 173	03/01/22 15:23	03/04/22 03:27	1
13C2-2-Perfluorodecylethanoic acid	134	cn	10 - 200	03/01/22 15:23	03/04/22 03:27	1
13C2-2-Perfluorohexylethanoic acid	153	cn	10 - 200	03/01/22 15:23	03/04/22 03:27	1
13C2-2-Perfluorooctylethanoic acid	138	cn	10 - 200	03/01/22 15:23	03/04/22 03:27	1
13C2-PFDoDA	84	cn	17 - 176	03/01/22 15:23	03/04/22 03:27	1
13C3 HFPO-DA	71	cn	17 - 185	03/01/22 15:23	03/04/22 03:27	1
13C3 PFBS	156	cn	16 - 200	03/01/22 15:23	03/04/22 03:27	1
13C3 PFHxS	92	cn	28 - 188	03/01/22 15:23	03/04/22 03:27	1
13C4 PFBA	91	cn	42 - 165	03/01/22 15:23	03/04/22 03:27	1
13C4 PFHpA	91	cn	31 - 182	03/01/22 15:23	03/04/22 03:27	1
13C5 PFHxA	86	cn	24 - 179	03/01/22 15:23	03/04/22 03:27	1
13C5 PFPeA	147	cn	38 - 187	03/01/22 15:23	03/04/22 03:27	1
13C6 PFDA	90	cn	49 - 163	03/01/22 15:23	03/04/22 03:27	1
13C7 PFUnA	88	cn	34 - 174	03/01/22 15:23	03/04/22 03:27	1
13C8 FOSA	76	cn	10 - 168	03/01/22 15:23	03/04/22 03:27	1
13C8 PFOA	87	cn	48 - 162	03/01/22 15:23	03/04/22 03:27	1
13C8 PFOS	91	cn	51 - 159	03/01/22 15:23	03/04/22 03:27	1
13C9 PFNA	92	cn	51 - 167	03/01/22 15:23	03/04/22 03:27	1
d3-NMeFOSAA	83	cn	31 - 174	03/01/22 15:23	03/04/22 03:27	1
d3-NMePFOSA	29	cn	10 - 155	03/01/22 15:23	03/04/22 03:27	1
d5-NEtFOSAA	96	cn	29 - 195	03/01/22 15:23	03/04/22 03:27	1
d5-NEtPFOSA	30	cn	10 - 159	03/01/22 15:23	03/04/22 03:27	1
d7-N-MeFOSE-M	62	cn	10 - 178	03/01/22 15:23	03/04/22 03:27	1
d9-N-EtFOSE-M	60	cn	10 - 177	03/01/22 15:23	03/04/22 03:27	1
M2-4:2 FTS	94	cn	10 - 200	03/01/22 15:23	03/04/22 03:27	1
M2-6:2 FTS	96	cn	17 - 200	03/01/22 15:23	03/04/22 03:27	1
M2-8:2 FTS	88	cn	33 - 200	03/01/22 15:23	03/04/22 03:27	1

Method: 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	1520	cn	48.6	19.4	ng/L		03/01/22 15:23	03/05/22 22:33	10
Perfluoropropionic Acid (PFPrA)	3540	cn	48.6	19.4	ng/L		03/01/22 15:23	03/05/22 22:33	10

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-22-GW

Date Collected: 02/22/22 12:20

Date Received: 02/25/22 11:19

Lab Sample ID: 410-74261-3

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91	cn	42 - 165	03/01/22 15:23	03/05/22 22:33	10

Client Sample ID: DPT-23-GW

Date Collected: 02/23/22 13:00

Date Received: 02/25/22 11:19

Lab Sample ID: 410-74261-4

Matrix: Water

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluoroteler unsaturated acid	<0.683	cn	1.95	0.683	ng/L		03/01/22 15:23	03/04/22 03:38	1
10:2 Fluorotelomer carboxylic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.976	cn	4.88	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.293	*- cn	1.95	0.293	ng/L		03/01/22 15:23	03/04/22 03:38	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.293	cn	1.95	0.293	ng/L		03/01/22 15:23	03/04/22 03:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
4:2 Fluorotelomer sulfonic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
6:2 Fluoroteler unsaturated acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
6:2 Fluorotelomer carboxylic acid	<0.390	cn	1.95	0.390	ng/L		03/01/22 15:23	03/04/22 03:38	1
6:2 Fluorotelomer sulfonic acid	<1.95	cn	4.88	1.95	ng/L		03/01/22 15:23	03/04/22 03:38	1
8:2 Fluoroteler unsaturated acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
8:2 Fluorotelomer carboxylic acid	<0.390	cn	1.95	0.390	ng/L		03/01/22 15:23	03/04/22 03:38	1
8:2 Fluorotelomer sulfonic acid	<0.976	cn	2.93	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
EVE Acid	<2.93	*- cn	9.76	2.93	ng/L		03/01/22 15:23	03/04/22 03:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.48	J cn	2.93	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Hydro-EVE Acid	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Hydrolyzed PSDA	<0.878	cn	1.95	0.878	ng/L		03/01/22 15:23	03/04/22 03:38	1
Hydro-PS Acid	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
MTP	<1.95	*+ cn	4.88	1.95	ng/L		03/01/22 15:23	03/04/22 03:38	1
Nafion Byproduct 1 (Nafion BP1)	<2.93	*- cn	9.76	2.93	ng/L		03/01/22 15:23	03/04/22 03:38	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.976	cn	4.88	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<0.976	cn	2.93	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<0.488	cn	2.93	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.976	cn	2.93	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.976	cn	2.93	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<0.585	cn	1.95	0.585	ng/L		03/01/22 15:23	03/04/22 03:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
NVHOS	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-23-GW

Lab Sample ID: 410-74261-4

Date Collected: 02/23/22 13:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro(3,5,7,9-tetraoxadecanoic acid (PFO4DA)	<0.683	cn	1.95	0.683	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro(3,5,7-trioxaoctanoic acid (PFO3OA)	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro(3,5-dioxahexanoic acid (PFO2HxA)	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-2-(perfluoroethoxy)propionic acid	2.70	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	<0.195	*+ cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.95	cn	4.88	1.95	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	11.9	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-3-methoxypropanoic acid (PMPA)	5.97	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)	0.497	J cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.97	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorobutanesulfonic acid	5.99	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorobutanoic acid	349	cn	4.88	1.95	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorodecanesulfonic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorodecanoic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorododecanesulfonic acid	<0.488	cn	2.93	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorododecanoic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoroheptanesulfonic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoroheptanoic acid	0.923	J I cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorohexadecanoic acid	<0.976	cn	2.93	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorohexanesulfonic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorohexanoic acid	2.73	I cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoronanesulfonic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoronanoic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorooctadecanoic acid	<0.976	cn	2.93	0.976	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorooctanesulfonamide	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorooctanesulfonic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorooctanoic acid	1.75	J cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoropentanesulfonic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoropentanoic acid	17.6	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoropropanesulfonic acid	1.98	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorotetradecanoic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluorotridecanoic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
Perfluoroundecanoic acid	<0.488	cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
R-EVE	<0.390	cn	1.95	0.390	ng/L		03/01/22 15:23	03/04/22 03:38	1
R-PSDA	<0.488	*- cn	1.95	0.488	ng/L		03/01/22 15:23	03/04/22 03:38	1
R-PSDCA	<0.195	cn	1.95	0.195	ng/L		03/01/22 15:23	03/04/22 03:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	77	cn	10 - 179				03/01/22 15:23	03/04/22 03:38	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-23-GW

Lab Sample ID: 410-74261-4

Date Collected: 02/23/22 13:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-2H-Perfluoro-2-decenoic acid	59	cn	21 - 166	03/01/22 15:23	03/04/22 03:38	1
13C2-2H-Perfluoro-2-dodecenoic acid	62	cn	14 - 166	03/01/22 15:23	03/04/22 03:38	1
13C2-2H-Perfluoro-2-octenoic acid	56	cn	20 - 173	03/01/22 15:23	03/04/22 03:38	1
13C2-2-Perfluorodecylethanoic acid	128	cn	10 - 200	03/01/22 15:23	03/04/22 03:38	1
13C2-2-Perfluorohexylethanoic acid	143	cn	10 - 200	03/01/22 15:23	03/04/22 03:38	1
13C2-2-Perfluorooctylethanoic acid	127	cn	10 - 200	03/01/22 15:23	03/04/22 03:38	1
13C2-PFDoDA	72	cn	17 - 176	03/01/22 15:23	03/04/22 03:38	1
13C3 HFPO-DA	67	cn	17 - 185	03/01/22 15:23	03/04/22 03:38	1
13C3 PFBS	180	cn	16 - 200	03/01/22 15:23	03/04/22 03:38	1
13C3 PFHxS	84	cn	28 - 188	03/01/22 15:23	03/04/22 03:38	1
13C4 PFBA	87	cn	42 - 165	03/01/22 15:23	03/04/22 03:38	1
13C4 PFHpA	83	cn	31 - 182	03/01/22 15:23	03/04/22 03:38	1
13C5 PFHxA	77	cn	24 - 179	03/01/22 15:23	03/04/22 03:38	1
13C5 PFPeA	164	cn	38 - 187	03/01/22 15:23	03/04/22 03:38	1
13C6 PFDA	84	cn	49 - 163	03/01/22 15:23	03/04/22 03:38	1
13C7 PFUnA	79	cn	34 - 174	03/01/22 15:23	03/04/22 03:38	1
13C8 FOSA	66	cn	10 - 168	03/01/22 15:23	03/04/22 03:38	1
13C8 PFOA	85	cn	48 - 162	03/01/22 15:23	03/04/22 03:38	1
13C8 PFOS	85	cn	51 - 159	03/01/22 15:23	03/04/22 03:38	1
13C9 PFNA	86	cn	51 - 167	03/01/22 15:23	03/04/22 03:38	1
d3-NMeFOSAA	77	cn	31 - 174	03/01/22 15:23	03/04/22 03:38	1
d3-NMePFOSA	15	cn	10 - 155	03/01/22 15:23	03/04/22 03:38	1
d5-NEtFOSAA	82	cn	29 - 195	03/01/22 15:23	03/04/22 03:38	1
d5-NEtPFOSA	14	cn	10 - 159	03/01/22 15:23	03/04/22 03:38	1
d7-N-MeFOSE-M	51	cn	10 - 178	03/01/22 15:23	03/04/22 03:38	1
d9-N-EtFOSE-M	47	cn	10 - 177	03/01/22 15:23	03/04/22 03:38	1
M2-4:2 FTS	85	cn	10 - 200	03/01/22 15:23	03/04/22 03:38	1
M2-6:2 FTS	95	cn	17 - 200	03/01/22 15:23	03/04/22 03:38	1
M2-8:2 FTS	89	cn	33 - 200	03/01/22 15:23	03/04/22 03:38	1

Method: 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropropionic Acid (PFPrA)	373	cn	48.8	19.5	ng/L		03/01/22 15:23	03/04/22 11:50	10
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	83	cn	42 - 165	03/01/22 15:23	03/04/22 11:50	10			

Client Sample ID: DPT-24-GW

Lab Sample ID: 410-74261-5

Date Collected: 02/23/22 10:25

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluoroteler unsaturated acid	<0.710	cn	2.03	0.710	ng/L		03/01/22 15:23	03/04/22 03:49	1
10:2 Fluorotelomer carboxylic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<1.01	cn	5.07	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.304	*- cn	2.03	0.304	ng/L		03/01/22 15:23	03/04/22 03:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-24-GW

Lab Sample ID: 410-74261-5

Date Collected: 02/23/22 10:25

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.304	cn	2.03	0.304	ng/L		03/01/22 15:23	03/04/22 03:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
4:2 Fluorotelomer sulfonic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
6:2 Fluoroteler unsaturated acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
6:2 Fluorotelomer carboxylic acid	<0.406	cn	2.03	0.406	ng/L		03/01/22 15:23	03/04/22 03:49	1
6:2 Fluorotelomer sulfonic acid	<2.03	cn	5.07	2.03	ng/L		03/01/22 15:23	03/04/22 03:49	1
8:2 Fluoroteler unsaturated acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
8:2 Fluorotelomer carboxylic acid	<0.406	cn	2.03	0.406	ng/L		03/01/22 15:23	03/04/22 03:49	1
8:2 Fluorotelomer sulfonic acid	<1.01	cn	3.04	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
EVE Acid	<3.04	*- cn	10.1	3.04	ng/L		03/01/22 15:23	03/04/22 03:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	18.4	cn	3.04	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Hydro-EVE Acid	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Hydrolyzed PSDA	<0.913	cn	2.03	0.913	ng/L		03/01/22 15:23	03/04/22 03:49	1
Hydro-PS Acid	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
MTP	<2.03	*+ cn	5.07	2.03	ng/L		03/01/22 15:23	03/04/22 03:49	1
Nafion Byproduct 1 (Nafion BP1)	<3.04	*- cn	10.1	3.04	ng/L		03/01/22 15:23	03/04/22 03:49	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.01	cn	5.07	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<1.01	cn	3.04	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.507	cn	3.04	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.01	cn	3.04	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.01	cn	3.04	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.609	cn	2.03	0.609	ng/L		03/01/22 15:23	03/04/22 03:49	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
NVHOS	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.710	cn	2.03	0.710	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro(3,5-dioxaheptanoic) acid (PFO2HxA)	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro-2-(perfluoroethoxy)propionic acid	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	9.94	*+ cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<2.03	cn	5.07	2.03	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	83.3	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-24-GW

Lab Sample ID: 410-74261-5

Date Collected: 02/23/22 10:25

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PMPA)	21.7	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro-4-isopropoxybutanoic acid (PFIPBA)	1.04	J cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	14.4	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorobutanesulfonic acid	31.3	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorodecanesulfonic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorodecanoic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorododecanesulfonic acid	<0.507	cn	3.04	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorododecanoic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoroheptanesulfonic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoroheptanoic acid	2.53	I cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorohexadecanoic acid	<1.01	cn	3.04	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorohexanesulfonic acid	0.720	J cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorohexanoic acid	11.0	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorononanesulfonic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorononanoic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorooctadecanoic acid	<1.01	cn	3.04	1.01	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorooctanesulfonamide	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorooctanesulfonic acid	1.91	J cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorooctanoic acid	3.69	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoropentanesulfonic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoropentanoic acid	50.7	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoropropanesulfonic acid	7.04	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorotetradecanoic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluorotridecanoic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
Perfluoroundecanoic acid	<0.507	cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
R-EVE	<0.406	cn	2.03	0.406	ng/L		03/01/22 15:23	03/04/22 03:49	1
R-PSDA	<0.507	*- cn	2.03	0.507	ng/L		03/01/22 15:23	03/04/22 03:49	1
R-PSDCA	<0.203	cn	2.03	0.203	ng/L		03/01/22 15:23	03/04/22 03:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	78	cn	10 - 179	03/01/22 15:23	03/04/22 03:49	1
13C2-2H-Perfluoro-2-decenoic acid	65	cn	21 - 166	03/01/22 15:23	03/04/22 03:49	1
13C2-2H-Perfluoro-2-dodecenoic acid	73	cn	14 - 166	03/01/22 15:23	03/04/22 03:49	1
13C2-2H-Perfluoro-2-octenoic acid	62	cn	20 - 173	03/01/22 15:23	03/04/22 03:49	1
13C2-2-Perfluorodecylethanoic acid	154	cn	10 - 200	03/01/22 15:23	03/04/22 03:49	1
13C2-2-Perfluorohexylethanoic acid	148	cn	10 - 200	03/01/22 15:23	03/04/22 03:49	1
13C2-2-Perfluorooctylethanoic acid	144	cn	10 - 200	03/01/22 15:23	03/04/22 03:49	1
13C2-PFDoDA	89	cn	17 - 176	03/01/22 15:23	03/04/22 03:49	1
13C3 HFPO-DA	74	cn	17 - 185	03/01/22 15:23	03/04/22 03:49	1
13C3 PFBS	177	cn	16 - 200	03/01/22 15:23	03/04/22 03:49	1
13C3 PFHxS	92	cn	28 - 188	03/01/22 15:23	03/04/22 03:49	1
13C4 PFBA	91	cn	42 - 165	03/01/22 15:23	03/04/22 03:49	1
13C4 PFHpA	89	cn	31 - 182	03/01/22 15:23	03/04/22 03:49	1
13C5 PFHxA	83	cn	24 - 179	03/01/22 15:23	03/04/22 03:49	1
13C5 PFPeA	165	cn	38 - 187	03/01/22 15:23	03/04/22 03:49	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-24-GW

Lab Sample ID: 410-74261-5

Date Collected: 02/23/22 10:25

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	92	cn	49 - 163	03/01/22 15:23	03/04/22 03:49	1
13C7 PFUnA	98	cn	34 - 174	03/01/22 15:23	03/04/22 03:49	1
13C8 FOSA	85	cn	10 - 168	03/01/22 15:23	03/04/22 03:49	1
13C8 PFOA	95	cn	48 - 162	03/01/22 15:23	03/04/22 03:49	1
13C8 PFOS	91	cn	51 - 159	03/01/22 15:23	03/04/22 03:49	1
13C9 PFNA	94	cn	51 - 167	03/01/22 15:23	03/04/22 03:49	1
d3-NMeFOSAA	81	cn	31 - 174	03/01/22 15:23	03/04/22 03:49	1
d3-NMePFOSA	68	cn	10 - 155	03/01/22 15:23	03/04/22 03:49	1
d5-NEtFOSAA	97	cn	29 - 195	03/01/22 15:23	03/04/22 03:49	1
d5-NEtPFOSA	78	cn	10 - 159	03/01/22 15:23	03/04/22 03:49	1
d7-N-MeFOSE-M	84	cn	10 - 178	03/01/22 15:23	03/04/22 03:49	1
d9-N-EtFOSE-M	82	cn	10 - 177	03/01/22 15:23	03/04/22 03:49	1
M2-4:2 FTS	75	cn	10 - 200	03/01/22 15:23	03/04/22 03:49	1
M2-6:2 FTS	109	cn	17 - 200	03/01/22 15:23	03/04/22 03:49	1
M2-8:2 FTS	97	cn	33 - 200	03/01/22 15:23	03/04/22 03:49	1

Method: 537 IDA - EPA 537 Isotope Dilution - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	1030	cn	50.7	20.3	ng/L		03/01/22 15:23	03/04/22 12:12	10
Perfluoropropionic Acid (PFPrA)	2320	cn	50.7	20.3	ng/L		03/01/22 15:23	03/04/22 12:12	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81	cn	42 - 165	03/01/22 15:23	03/04/22 12:12	10

Client Sample ID: Field Blank-GW

Lab Sample ID: 410-74261-6

Date Collected: 02/22/22 10:28

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluoroteler unsaturated acid	<0.617	cn	1.76	0.617	ng/L		03/01/22 15:23	03/04/22 04:00	1
10:2 Fluorotelomer carboxylic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.881	cn	4.41	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.264	*- cn	1.76	0.264	ng/L		03/01/22 15:23	03/04/22 04:00	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.264	cn	1.76	0.264	ng/L		03/01/22 15:23	03/04/22 04:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
4:2 Fluorotelomer sulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
6:2 Fluoroteler unsaturated acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
6:2 Fluorotelomer carboxylic acid	<0.352	cn	1.76	0.352	ng/L		03/01/22 15:23	03/04/22 04:00	1
6:2 Fluorotelomer sulfonic acid	<1.76	cn	4.41	1.76	ng/L		03/01/22 15:23	03/04/22 04:00	1
8:2 Fluoroteler unsaturated acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
8:2 Fluorotelomer carboxylic acid	<0.352	cn	1.76	0.352	ng/L		03/01/22 15:23	03/04/22 04:00	1
8:2 Fluorotelomer sulfonic acid	<0.881	cn	2.64	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Field Blank-GW

Lab Sample ID: 410-74261-6

Date Collected: 02/22/22 10:28

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<2.64	*- cn	8.81	2.64	ng/L		03/01/22 15:23	03/04/22 04:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.441	cn	2.64	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Hydro-EVE Acid	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Hydrolyzed PSDA	<0.793	cn	1.76	0.793	ng/L		03/01/22 15:23	03/04/22 04:00	1
Hydro-PS Acid	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
MTP	<1.76	*+ cn	4.41	1.76	ng/L		03/01/22 15:23	03/04/22 04:00	1
Nafion Byproduct 1 (Nafion BP1)	<2.64	*- cn	8.81	2.64	ng/L		03/01/22 15:23	03/04/22 04:00	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.881	cn	4.41	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<0.881	cn	2.64	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.441	cn	2.64	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.881	cn	2.64	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.881	cn	2.64	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.529	cn	1.76	0.529	ng/L		03/01/22 15:23	03/04/22 04:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
NVHOS	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.617	cn	1.76	0.617	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro(3,5-dioxaheptanoic) acid (PFO2HxA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-2-(perfluoroethoxy)propionic acid	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	<0.176	*+ cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.76	cn	4.41	1.76	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-3-methoxypropanoic acid (PMPA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorobutanesulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorobutanoic acid	<1.76	cn	4.41	1.76	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorodecanesulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorodecanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorododecanesulfonic acid	<0.441	cn	2.64	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorododecanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoroheptanesulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Field Blank-GW

Lab Sample ID: 410-74261-6

Date Collected: 02/22/22 10:28

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorohexadecanoic acid	<0.881	cn	2.64	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorohexanesulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorohexanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorononanesulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorononanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorooctadecanoic acid	<0.881	cn	2.64	0.881	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorooctanesulfonamide	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorooctanesulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorooctanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoropentanesulfonic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoropentanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoropropanesulfonic acid	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoropropionic Acid (PFPrA)	<1.76	cn	4.41	1.76	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorotetradecanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluorotridecanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
Perfluoroundecanoic acid	<0.441	cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
R-EVE	<0.352	cn	1.76	0.352	ng/L		03/01/22 15:23	03/04/22 04:00	1
R-PSDA	<0.441	*- cn	1.76	0.441	ng/L		03/01/22 15:23	03/04/22 04:00	1
R-PSDCA	<0.176	cn	1.76	0.176	ng/L		03/01/22 15:23	03/04/22 04:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	106	cn	10 - 179				03/01/22 15:23	03/04/22 04:00	1
13C2-2H-Perfluoro-2-decenoic acid	73	cn	21 - 166				03/01/22 15:23	03/04/22 04:00	1
13C2-2H-Perfluoro-2-dodecenoic acid	76	cn	14 - 166				03/01/22 15:23	03/04/22 04:00	1
13C2-2H-Perfluoro-2-octenoic acid	73	cn	20 - 173				03/01/22 15:23	03/04/22 04:00	1
13C2-2-Perfluorodecylethanoic acid	168	cn	10 - 200				03/01/22 15:23	03/04/22 04:00	1
13C2-2-Perfluorohexylethanoic acid	177	cn	10 - 200				03/01/22 15:23	03/04/22 04:00	1
13C2-2-Perfluorooctylethanoic acid	162	cn	10 - 200				03/01/22 15:23	03/04/22 04:00	1
13C2-PFDoDA	95	cn	17 - 176				03/01/22 15:23	03/04/22 04:00	1
13C3 HFPO-DA	80	cn	17 - 185				03/01/22 15:23	03/04/22 04:00	1
13C3 PFBS	102	cn	16 - 200				03/01/22 15:23	03/04/22 04:00	1
13C3 PFHxS	94	cn	28 - 188				03/01/22 15:23	03/04/22 04:00	1
13C4 PFBA	96	cn	42 - 165				03/01/22 15:23	03/04/22 04:00	1
13C4 PFHpA	94	cn	31 - 182				03/01/22 15:23	03/04/22 04:00	1
13C5 PFHxA	89	cn	24 - 179				03/01/22 15:23	03/04/22 04:00	1
13C5 PFPeA	99	cn	38 - 187				03/01/22 15:23	03/04/22 04:00	1
13C6 PFDA	100	cn	49 - 163				03/01/22 15:23	03/04/22 04:00	1
13C7 PFUnA	96	cn	34 - 174				03/01/22 15:23	03/04/22 04:00	1
13C8 FOSA	84	cn	10 - 168				03/01/22 15:23	03/04/22 04:00	1
13C8 PFOA	97	cn	48 - 162				03/01/22 15:23	03/04/22 04:00	1
13C8 PFOS	97	cn	51 - 159				03/01/22 15:23	03/04/22 04:00	1
13C9 PFNA	99	cn	51 - 167				03/01/22 15:23	03/04/22 04:00	1
d3-NMeFOSAA	100	cn	31 - 174				03/01/22 15:23	03/04/22 04:00	1
d3-NMePFOSA	38	cn	10 - 155				03/01/22 15:23	03/04/22 04:00	1
d5-NEtFOSAA	100	cn	29 - 195				03/01/22 15:23	03/04/22 04:00	1
d5-NEtPFOSA	36	cn	10 - 159				03/01/22 15:23	03/04/22 04:00	1
d7-N-MeFOSE-M	66	cn	10 - 178				03/01/22 15:23	03/04/22 04:00	1
d9-N-EtFOSE-M	60	cn	10 - 177				03/01/22 15:23	03/04/22 04:00	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Field Blank-GW

Date Collected: 02/22/22 10:28

Date Received: 02/25/22 11:19

Lab Sample ID: 410-74261-6

Matrix: Water

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	104	cn	10 - 200	03/01/22 15:23	03/04/22 04:00	1
M2-6:2 FTS	99	cn	17 - 200	03/01/22 15:23	03/04/22 04:00	1
M2-8:2 FTS	90	cn	33 - 200	03/01/22 15:23	03/04/22 04:00	1

Client Sample ID: Equipment Blank-GW

Date Collected: 02/23/22 12:05

Date Received: 02/25/22 11:19

Lab Sample ID: 410-74261-7

Matrix: Water

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluoroteler unsaturated acid	<0.659	cn	1.88	0.659	ng/L		03/01/22 15:23	03/04/22 04:11	1
10:2 Fluorotelomer carboxylic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.941	cn	4.70	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.282	*- cn	1.88	0.282	ng/L		03/01/22 15:23	03/04/22 04:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.282	cn	1.88	0.282	ng/L		03/01/22 15:23	03/04/22 04:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
4:2 Fluorotelomer sulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
6:2 Fluoroteler unsaturated acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
6:2 Fluorotelomer carboxylic acid	<0.376	cn	1.88	0.376	ng/L		03/01/22 15:23	03/04/22 04:11	1
6:2 Fluorotelomer sulfonic acid	<1.88	cn	4.70	1.88	ng/L		03/01/22 15:23	03/04/22 04:11	1
8:2 Fluoroteler unsaturated acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
8:2 Fluorotelomer carboxylic acid	<0.376	cn	1.88	0.376	ng/L		03/01/22 15:23	03/04/22 04:11	1
8:2 Fluorotelomer sulfonic acid	<0.941	cn	2.82	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
EVE Acid	<2.82	*- cn	9.41	2.82	ng/L		03/01/22 15:23	03/04/22 04:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.470	cn	2.82	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Hydro-EVE Acid	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Hydrolyzed PSDA	<0.847	cn	1.88	0.847	ng/L		03/01/22 15:23	03/04/22 04:11	1
Hydro-PS Acid	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
MTP	<1.88	*+ cn	4.70	1.88	ng/L		03/01/22 15:23	03/04/22 04:11	1
Nafion Byproduct 1 (Nafion BP1)	<2.82	*- cn	9.41	2.82	ng/L		03/01/22 15:23	03/04/22 04:11	1
N-ethylperfluorooctane sulfonamide (NETFOSA)	<0.941	cn	4.70	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
N-ethylperfluorooctane sulfonamidoethanol (NETFOSE)	<0.941	cn	2.82	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
N-ethylperfluorooctanesulfonamidoac etic acid (NETFOSAA)	<0.470	cn	2.82	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.941	cn	2.82	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.941	cn	2.82	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<0.565	cn	1.88	0.565	ng/L		03/01/22 15:23	03/04/22 04:11	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Equipment Blank-GW

Lab Sample ID: 410-74261-7

Date Collected: 02/23/22 12:05

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
NVHOS	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.659	cn	1.88	0.659	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-2-(perfluoroethoxy)propionic acid	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	<0.188	*+ cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.88	cn	4.70	1.88	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-3-methoxypropanoic acid (PMPA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorobutanesulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorobutanoic acid	<1.88	cn	4.70	1.88	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorodecanesulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorodecanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorododecanesulfonic acid	<0.470	cn	2.82	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorododecanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoroheptanesulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoroheptanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorohexadecanoic acid	<0.941	cn	2.82	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorohexanesulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorohexanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorononanesulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorononanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorooctadecanoic acid	<0.941	cn	2.82	0.941	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorooctanesulfonamide	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorooctanesulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorooctanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoropentanesulfonic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoropentanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoropropanesulfonic acid	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoropropionic Acid (PFPrA)	<1.88	cn	4.70	1.88	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorotetradecanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluorotridecanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
Perfluoroundecanoic acid	<0.470	cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1
R-EVE	<0.376	cn	1.88	0.376	ng/L		03/01/22 15:23	03/04/22 04:11	1
R-PSDA	<0.470	*- cn	1.88	0.470	ng/L		03/01/22 15:23	03/04/22 04:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Equipment Blank-GW

Lab Sample ID: 410-74261-7

Date Collected: 02/23/22 12:05

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
R-PSDCA	<0.188	cn	1.88	0.188	ng/L		03/01/22 15:23	03/04/22 04:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFTeDA	101	cn	10 - 179				03/01/22 15:23	03/04/22 04:11	1
13C2-2H-Perfluoro-2-decenoic acid	72	cn	21 - 166				03/01/22 15:23	03/04/22 04:11	1
13C2-2H-Perfluoro-2-dodecenoic acid	75	cn	14 - 166				03/01/22 15:23	03/04/22 04:11	1
13C2-2H-Perfluoro-2-octenoic acid	81	cn	20 - 173				03/01/22 15:23	03/04/22 04:11	1
13C2-2-Perfluorodecylethanoic acid	162	cn	10 - 200				03/01/22 15:23	03/04/22 04:11	1
13C2-2-Perfluorohexylethanoic acid	194	cn	10 - 200				03/01/22 15:23	03/04/22 04:11	1
13C2-2-Perfluorooctylethanoic acid	158	cn	10 - 200				03/01/22 15:23	03/04/22 04:11	1
13C2-PFDoDA	98	cn	17 - 176				03/01/22 15:23	03/04/22 04:11	1
13C3 HFPO-DA	84	cn	17 - 185				03/01/22 15:23	03/04/22 04:11	1
13C3 PFBS	122	cn	16 - 200				03/01/22 15:23	03/04/22 04:11	1
13C3 PFHxS	102	cn	28 - 188				03/01/22 15:23	03/04/22 04:11	1
13C4 PFBA	97	cn	42 - 165				03/01/22 15:23	03/04/22 04:11	1
13C4 PFHpA	101	cn	31 - 182				03/01/22 15:23	03/04/22 04:11	1
13C5 PFHxA	101	cn	24 - 179				03/01/22 15:23	03/04/22 04:11	1
13C5 PFPeA	118	cn	38 - 187				03/01/22 15:23	03/04/22 04:11	1
13C6 PFDA	104	cn	49 - 163				03/01/22 15:23	03/04/22 04:11	1
13C7 PFUnA	94	cn	34 - 174				03/01/22 15:23	03/04/22 04:11	1
13C8 FOSA	86	cn	10 - 168				03/01/22 15:23	03/04/22 04:11	1
13C8 PFOA	104	cn	48 - 162				03/01/22 15:23	03/04/22 04:11	1
13C8 PFOS	100	cn	51 - 159				03/01/22 15:23	03/04/22 04:11	1
13C9 PFNA	101	cn	51 - 167				03/01/22 15:23	03/04/22 04:11	1
d3-NMeFOSAA	96	cn	31 - 174				03/01/22 15:23	03/04/22 04:11	1
d3-NMePFOSA	73	cn	10 - 155				03/01/22 15:23	03/04/22 04:11	1
d5-NEtFOSAA	108	cn	29 - 195				03/01/22 15:23	03/04/22 04:11	1
d5-NEtPFOSA	87	cn	10 - 159				03/01/22 15:23	03/04/22 04:11	1
d7-N-MeFOSE-M	88	cn	10 - 178				03/01/22 15:23	03/04/22 04:11	1
d9-N-EtFOSE-M	83	cn	10 - 177				03/01/22 15:23	03/04/22 04:11	1
M2-4:2 FTS	111	cn	10 - 200				03/01/22 15:23	03/04/22 04:11	1
M2-6:2 FTS	109	cn	17 - 200				03/01/22 15:23	03/04/22 04:11	1
M2-8:2 FTS	100	cn	33 - 200				03/01/22 15:23	03/04/22 04:11	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-74261-8

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 Fluorotelemer unsaturated acid	<0.640	cn	1.83	0.640	ng/L		03/01/22 15:23	03/04/22 04:33	1
10:2 Fluorotelomer carboxylic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.914	cn	4.57	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.274	*- cn	1.83	0.274	ng/L		03/01/22 15:23	03/04/22 04:33	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-74261-8

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.274	cn	1.83	0.274	ng/L		03/01/22 15:23	03/04/22 04:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
4:2 Fluorotelomer sulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
6:2 Fluorotelemer unsaturated acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
6:2 Fluorotelomer carboxylic acid	<0.366	cn	1.83	0.366	ng/L		03/01/22 15:23	03/04/22 04:33	1
6:2 Fluorotelomer sulfonic acid	<1.83	cn	4.57	1.83	ng/L		03/01/22 15:23	03/04/22 04:33	1
8:2 Fluorotelemer unsaturated acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
8:2 Fluorotelomer carboxylic acid	<0.366	cn	1.83	0.366	ng/L		03/01/22 15:23	03/04/22 04:33	1
8:2 Fluorotelomer sulfonic acid	<0.914	cn	2.74	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
EVE Acid	<2.74	*- cn	9.14	2.74	ng/L		03/01/22 15:23	03/04/22 04:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.457	cn	2.74	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Hydro-EVE Acid	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Hydrolyzed PSDA	<0.823	cn	1.83	0.823	ng/L		03/01/22 15:23	03/04/22 04:33	1
Hydro-PS Acid	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
MTP	<1.83	*+ cn	4.57	1.83	ng/L		03/01/22 15:23	03/04/22 04:33	1
Nafion Byproduct 1 (Nafion BP1)	<2.74	*- cn	9.14	2.74	ng/L		03/01/22 15:23	03/04/22 04:33	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.914	cn	4.57	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<0.914	cn	2.74	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.457	cn	2.74	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.914	cn	2.74	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.914	cn	2.74	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.548	cn	1.83	0.548	ng/L		03/01/22 15:23	03/04/22 04:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
NVHOS	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.640	cn	1.83	0.640	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro-2-(perfluoroethoxy)propionic acid	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	<0.183	*+ cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.83	cn	4.57	1.83	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro-3-methoxypropanoic acid (PMPA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1

Client Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-74261-8

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorobutanesulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorobutanoic acid	<1.83	cn	4.57	1.83	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorodecanesulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorodecanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorododecanesulfonic acid	<0.457	cn	2.74	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorododecanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoroheptanesulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoroheptanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorohexadecanoic acid	<0.914	cn	2.74	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorohexanesulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorohexanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorononanesulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorononanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorooctadecanoic acid	<0.914	cn	2.74	0.914	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorooctanesulfonamide	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorooctanesulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorooctanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoropentanesulfonic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoropentanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoropropanesulfonic acid	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoropropionic Acid (PFPrA)	<1.83	cn	4.57	1.83	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorotetradecanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluorotridecanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
Perfluoroundecanoic acid	<0.457	cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
R-EVE	<0.366	cn	1.83	0.366	ng/L		03/01/22 15:23	03/04/22 04:33	1
R-PSDA	<0.457	*- cn	1.83	0.457	ng/L		03/01/22 15:23	03/04/22 04:33	1
R-PSDCA	<0.183	cn	1.83	0.183	ng/L		03/01/22 15:23	03/04/22 04:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	75	cn	10 - 179	03/01/22 15:23	03/04/22 04:33	1
13C2-2H-Perfluoro-2-decenoic acid	52	cn	21 - 166	03/01/22 15:23	03/04/22 04:33	1
13C2-2H-Perfluoro-2-dodecenoic acid	51	cn	14 - 166	03/01/22 15:23	03/04/22 04:33	1
13C2-2H-Perfluoro-2-octenoic acid	62	cn	20 - 173	03/01/22 15:23	03/04/22 04:33	1
13C2-2-Perfluorodecylethanoic acid	105	cn	10 - 200	03/01/22 15:23	03/04/22 04:33	1
13C2-2-Perfluorohexylethanoic acid	153	cn	10 - 200	03/01/22 15:23	03/04/22 04:33	1
13C2-2-Perfluorooctylethanoic acid	118	cn	10 - 200	03/01/22 15:23	03/04/22 04:33	1
13C2-PFDoDA	64	cn	17 - 176	03/01/22 15:23	03/04/22 04:33	1
13C3 HFPO-DA	72	cn	17 - 185	03/01/22 15:23	03/04/22 04:33	1
13C3 PFBS	83	cn	16 - 200	03/01/22 15:23	03/04/22 04:33	1
13C3 PFHxS	71	cn	28 - 188	03/01/22 15:23	03/04/22 04:33	1
13C4 PFBA	87	cn	42 - 165	03/01/22 15:23	03/04/22 04:33	1
13C4 PFHpA	83	cn	31 - 182	03/01/22 15:23	03/04/22 04:33	1
13C5 PFHxA	82	cn	24 - 179	03/01/22 15:23	03/04/22 04:33	1
13C5 PFPeA	86	cn	38 - 187	03/01/22 15:23	03/04/22 04:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Eastern Research Group, Inc.
 Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-74261-8

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/25/22 11:19

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6 PFDA	67	cn	49 - 163	03/01/22 15:23	03/04/22 04:33	1
13C7 PFUnA	63	cn	34 - 174	03/01/22 15:23	03/04/22 04:33	1
13C8 FOSA	63	cn	10 - 168	03/01/22 15:23	03/04/22 04:33	1
13C8 PFOA	80	cn	48 - 162	03/01/22 15:23	03/04/22 04:33	1
13C8 PFOS	61	cn	51 - 159	03/01/22 15:23	03/04/22 04:33	1
13C9 PFNA	71	cn	51 - 167	03/01/22 15:23	03/04/22 04:33	1
d3-NMeFOSAA	61	cn	31 - 174	03/01/22 15:23	03/04/22 04:33	1
d3-NMePFOSA	39	cn	10 - 155	03/01/22 15:23	03/04/22 04:33	1
d5-NEtFOSAA	61	cn	29 - 195	03/01/22 15:23	03/04/22 04:33	1
d5-NEtPFOSA	40	cn	10 - 159	03/01/22 15:23	03/04/22 04:33	1
d7-N-MeFOSE-M	73	cn	10 - 178	03/01/22 15:23	03/04/22 04:33	1
d9-N-EtFOSE-M	67	cn	10 - 177	03/01/22 15:23	03/04/22 04:33	1
M2-4:2 FTS	96	cn	10 - 200	03/01/22 15:23	03/04/22 04:33	1
M2-6:2 FTS	78	cn	17 - 200	03/01/22 15:23	03/04/22 04:33	1
M2-8:2 FTS	64	cn	33 - 200	03/01/22 15:23	03/04/22 04:33	1

Isotope Dilution Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (10-179)	MFOUEA (21-166)	MFDUEA (14-166)	MFHUEA (20-173)	MFDEA (10-200)	MFHEA (10-200)	MFOEA (10-200)	PFDODA (17-176)
410-74261-1	DPT-28-GW	101 cn	68 cn	69 cn	68 cn	149 cn	165 cn	149 cn	94 cn
410-74261-1 - DL	DPT-28-GW								
410-74261-2	DPT-21-GW	102 cn	69 cn	73 cn	67 cn	155 cn	165 cn	151 cn	93 cn
410-74261-2 - DL	DPT-21-GW								
410-74261-2 MS	DPT-21-GW-MS	100	69	70	66	155	163	158	90
410-74261-2 MSD	DPT-21-GW-MSD	83	59	62	55	138	139	132	81
410-74261-3	DPT-22-GW	90 cn	60 cn	67 cn	63 cn	134 cn	153 cn	138 cn	84 cn
410-74261-3 - DL	DPT-22-GW								
410-74261-4	DPT-23-GW	77 cn	59 cn	62 cn	56 cn	128 cn	143 cn	127 cn	72 cn
410-74261-4 - DL	DPT-23-GW								
410-74261-5	DPT-24-GW	78 cn	65 cn	73 cn	62 cn	154 cn	148 cn	144 cn	89 cn
410-74261-5 - DL	DPT-24-GW								
410-74261-6	Field Blank-GW	106 cn	73 cn	76 cn	73 cn	168 cn	177 cn	162 cn	95 cn
410-74261-7	Equipment Blank-GW	101 cn	72 cn	75 cn	81 cn	162 cn	194 cn	158 cn	98 cn
410-74261-8	Trip Blank	75 cn	52 cn	51 cn	62 cn	105 cn	153 cn	118 cn	64 cn
LCS 410-228830/2-A	Lab Control Sample	98	74	79	78	179	194	171	99
MB 410-228830/1-A	Method Blank	71	55	55	58	117	144	130	71

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (17-185)	C3PFBS (16-200)	C3PFHS (28-188)	PFBA (42-165)	C4PFHA (31-182)	13C5PHA (24-179)	PFPeA (38-187)	C6PFDA (49-163)
410-74261-1	DPT-28-GW	75 cn	127 cn	99 cn	92 cn	94 cn	87 cn	119 cn	99 cn
410-74261-1 - DL	DPT-28-GW				104 cn				
410-74261-2	DPT-21-GW	72 cn	135 cn	100 cn	95 cn	95 cn	91 cn	127 cn	96 cn
410-74261-2 - DL	DPT-21-GW				78 cn				
410-74261-2 MS	DPT-21-GW-MS	74	132	94	94	89	81	123	94
410-74261-2 MSD	DPT-21-GW-MSD	71	106	76	79	75	74	99	81
410-74261-3	DPT-22-GW	71 cn	156 cn	92 cn	91 cn	91 cn	86 cn	147 cn	90 cn
410-74261-3 - DL	DPT-22-GW				91 cn				
410-74261-4	DPT-23-GW	67 cn	180 cn	84 cn	87 cn	83 cn	77 cn	164 cn	84 cn
410-74261-4 - DL	DPT-23-GW				83 cn				
410-74261-5	DPT-24-GW	74 cn	177 cn	92 cn	91 cn	89 cn	83 cn	165 cn	92 cn
410-74261-5 - DL	DPT-24-GW				81 cn				
410-74261-6	Field Blank-GW	80 cn	102 cn	94 cn	96 cn	94 cn	89 cn	99 cn	100 cn
410-74261-7	Equipment Blank-GW	84 cn	122 cn	102 cn	97 cn	101 cn	101 cn	118 cn	104 cn
410-74261-8	Trip Blank	72 cn	83 cn	71 cn	87 cn	83 cn	82 cn	86 cn	67 cn
LCS 410-228830/2-A	Lab Control Sample	88	107	102	99	98	94	107	107
MB 410-228830/1-A	Method Blank	61	82	78	79	79	74	78	77

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFOSA (10-168)	C8PFOA (48-162)	C8PFOS (51-159)	C9PFNA (51-167)	d3NMFOA (31-174)	d3NMFSA (10-155)	d5NEFOS (29-195)
410-74261-1	DPT-28-GW	97 cn	86 cn	96 cn	97 cn	94 cn	93 cn	48 cn	99 cn
410-74261-1 - DL	DPT-28-GW								
410-74261-2	DPT-21-GW	90 cn	83 cn	98 cn	99 cn	96 cn	98 cn	40 cn	101 cn
410-74261-2 - DL	DPT-21-GW								
410-74261-2 MS	DPT-21-GW-MS	93	84	92	92	94	90	55	98
410-74261-2 MSD	DPT-21-GW-MSD	84	72	81	75	77	77	53	87
410-74261-3	DPT-22-GW	88 cn	76 cn	87 cn	91 cn	92 cn	83 cn	29 cn	96 cn
410-74261-3 - DL	DPT-22-GW								
410-74261-4	DPT-23-GW	79 cn	66 cn	85 cn	85 cn	86 cn	77 cn	15 cn	82 cn

Eurofins Lancaster Laboratories Env, LLC

Isotope Dilution Summary

Client: Eastern Research Group, Inc.
 Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C7PUA (34-174)	PFOSA (10-168)	C8PFOA (48-162)	C8PFOS (51-159)	C9PFNA (51-167)	d3NMFOS (31-174)	d3NMFSA (10-155)	d5NEFOS (29-195)
410-74261-4 - DL	DPT-23-GW								
410-74261-5	DPT-24-GW	98 cn	85 cn	95 cn	91 cn	94 cn	81 cn	68 cn	97 cn
410-74261-5 - DL	DPT-24-GW								
410-74261-6	Field Blank-GW	96 cn	84 cn	97 cn	97 cn	99 cn	100 cn	38 cn	100 cn
410-74261-7	Equipment Blank-GW	94 cn	86 cn	104 cn	100 cn	101 cn	96 cn	73 cn	108 cn
410-74261-8	Trip Blank	63 cn	63 cn	80 cn	61 cn	71 cn	61 cn	39 cn	61 cn
LCS 410-228830/2-A	Lab Control Sample	105	82	104	104	103	101	41	105
MB 410-228830/1-A	Method Blank	72	64	80	79	79	71	53	76

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NPFSA (10-159)	NMFM (10-178)	NEFM (10-177)	M242FTS (10-200)	M262FTS (17-200)	M282FTS (33-200)
410-74261-1	DPT-28-GW	52 cn	85 cn	82 cn	97 cn	110 cn	84 cn
410-74261-1 - DL	DPT-28-GW						
410-74261-2	DPT-21-GW	40 cn	79 cn	73 cn	100 cn	105 cn	91 cn
410-74261-2 - DL	DPT-21-GW						
410-74261-2 MS	DPT-21-GW-MS	58	80	74	92	101	97
410-74261-2 MSD	DPT-21-GW-MSD	54	74	71	79	80	83
410-74261-3	DPT-22-GW	30 cn	62 cn	60 cn	94 cn	96 cn	88 cn
410-74261-3 - DL	DPT-22-GW						
410-74261-4	DPT-23-GW	14 cn	51 cn	47 cn	85 cn	95 cn	89 cn
410-74261-4 - DL	DPT-23-GW						
410-74261-5	DPT-24-GW	78 cn	84 cn	82 cn	75 cn	109 cn	97 cn
410-74261-5 - DL	DPT-24-GW						
410-74261-6	Field Blank-GW	36 cn	66 cn	60 cn	104 cn	99 cn	90 cn
410-74261-7	Equipment Blank-GW	87 cn	88 cn	83 cn	111 cn	109 cn	100 cn
410-74261-8	Trip Blank	40 cn	73 cn	67 cn	96 cn	78 cn	64 cn
LCS 410-228830/2-A	Lab Control Sample	43	77	74	112	95	94
MB 410-228830/1-A	Method Blank	59	62	58	89	83	77

Surrogate Legend

- PFTDA = 13C2 PFTeDA
- MFOUEA = 13C2-2H-Perfluoro-2-decenoic acid
- MFDUEA = 13C2-2H-Perfluoro-2-dodecenoic acid
- MFHUEA = 13C2-2H-Perfluoro-2-octenoic acid
- MFDEA = 13C2-2-Perfluorodecylethanoic acid
- MFHEA = 13C2-2-Perfluorohexylethanoic acid
- MFOEA = 13C2-2-Perfluorooctylethanoic acid
- PFDODA = 13C2-PFDoDA
- HFPODA = 13C3 HFPO-DA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- PFBA = 13C4 PFBA
- C4PFHA = 13C4 PFHpA
- 13C5PHA = 13C5 PFHxA
- PFPeA = 13C5 PFPeA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFOSA = 13C8 FOSA
- C8PFOA = 13C8 PFOA
- C8PFOS = 13C8 PFOS

Isotope Dilution Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

C9PFNA = ¹³C9 PFNA
d3NMFOS = d3-NMeFOSAA
d3NMFSA = d3-NMePFOSA
d5NEFOS = d5-NEtFOSAA
d5NPFSA = d5-NEtPFOSA
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-228830/1-A
Matrix: Water
Analysis Batch: 229741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228830

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
10:2 Fluorotelemer unsaturated acid	<0.700		2.00	0.700	ng/L		03/01/22 15:23	03/04/22 02:09	1
10:2 Fluorotelomer carboxylic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<1.00		5.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.300		2.00	0.300	ng/L		03/01/22 15:23	03/04/22 02:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.300		2.00	0.300	ng/L		03/01/22 15:23	03/04/22 02:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
4:2 Fluorotelomer sulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
6:2 Fluorotelemer unsaturated acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
6:2 Fluorotelomer carboxylic acid	<0.400		2.00	0.400	ng/L		03/01/22 15:23	03/04/22 02:09	1
6:2 Fluorotelomer sulfonic acid	<2.00		5.00	2.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
8:2 Fluorotelemer unsaturated acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
8:2 Fluorotelomer carboxylic acid	<0.400		2.00	0.400	ng/L		03/01/22 15:23	03/04/22 02:09	1
8:2 Fluorotelomer sulfonic acid	<1.00		3.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
EVE Acid	<3.00		10.0	3.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.500		3.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Hydro-EVE Acid	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Hydrolyzed PSDA	<0.900		2.00	0.900	ng/L		03/01/22 15:23	03/04/22 02:09	1
Hydro-PS Acid	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
MTP	<2.00		5.00	2.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
Nafion Byproduct 1 (Nafion BP1)	<3.00		10.0	3.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.00		5.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<1.00		3.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<0.500		3.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.00		3.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.00		3.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<0.600		2.00	0.600	ng/L		03/01/22 15:23	03/04/22 02:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
NVHOS	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro (2-ethoxyethane) sulfonic acid	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.700		2.00	0.700	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-228830/1-A
Matrix: Water
Analysis Batch: 229741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228830

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-2-(perfluoroethoxy)propionic acid	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<2.00		5.00	2.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-3-methoxypropanoic acid (PMPA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorobutanesulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorobutanoic acid	<2.00		5.00	2.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorodecanesulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorodecanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorododecanesulfonic acid	<0.500		3.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorododecanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoroheptanesulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoroheptanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorohexadecanoic acid	<1.00		3.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorohexanesulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorohexanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorononanesulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorononanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorooctadecanoic acid	<1.00		3.00	1.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorooctanesulfonamide	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorooctanesulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorooctanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoropentanesulfonic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoropentanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoropropanesulfonic acid	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoropropionic Acid (PFPrA)	<2.00		5.00	2.00	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorotetradecanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluorotridecanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
Perfluoroundecanoic acid	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
R-EVE	<0.400		2.00	0.400	ng/L		03/01/22 15:23	03/04/22 02:09	1
R-PSDA	<0.500		2.00	0.500	ng/L		03/01/22 15:23	03/04/22 02:09	1
R-PSDCA	<0.200		2.00	0.200	ng/L		03/01/22 15:23	03/04/22 02:09	1
	MB	MB					Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier	Limits						
13C2 PFTeDA	71		10 - 179				03/01/22 15:23	03/04/22 02:09	1
13C2-2H-Perfluoro-2-decenoic acid	55		21 - 166				03/01/22 15:23	03/04/22 02:09	1
13C2-2H-Perfluoro-2-dodecenoic acid	55		14 - 166				03/01/22 15:23	03/04/22 02:09	1

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-228830/1-A
Matrix: Water
Analysis Batch: 229741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228830

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-2H-Perfluoro-2-octenoic acid	58		20 - 173	03/01/22 15:23	03/04/22 02:09	1
13C2-2-Perfluorodecylethanoic acid	117		10 - 200	03/01/22 15:23	03/04/22 02:09	1
13C2-2-Perfluorohexylethanoic acid	144		10 - 200	03/01/22 15:23	03/04/22 02:09	1
13C2-2-Perfluorooctylethanoic acid	130		10 - 200	03/01/22 15:23	03/04/22 02:09	1
13C2-PFDoDA	71		17 - 176	03/01/22 15:23	03/04/22 02:09	1
13C3 HFPO-DA	61		17 - 185	03/01/22 15:23	03/04/22 02:09	1
13C3 PFBS	82		16 - 200	03/01/22 15:23	03/04/22 02:09	1
13C3 PFHxS	78		28 - 188	03/01/22 15:23	03/04/22 02:09	1
13C4 PFBA	79		42 - 165	03/01/22 15:23	03/04/22 02:09	1
13C4 PFHpA	79		31 - 182	03/01/22 15:23	03/04/22 02:09	1
13C5 PFHxA	74		24 - 179	03/01/22 15:23	03/04/22 02:09	1
13C5 PFPeA	78		38 - 187	03/01/22 15:23	03/04/22 02:09	1
13C6 PFDA	77		49 - 163	03/01/22 15:23	03/04/22 02:09	1
13C7 PFUnA	72		34 - 174	03/01/22 15:23	03/04/22 02:09	1
13C8 FOSA	64		10 - 168	03/01/22 15:23	03/04/22 02:09	1
13C8 PFOA	80		48 - 162	03/01/22 15:23	03/04/22 02:09	1
13C8 PFOS	79		51 - 159	03/01/22 15:23	03/04/22 02:09	1
13C9 PFNA	79		51 - 167	03/01/22 15:23	03/04/22 02:09	1
d3-NMeFOSAA	71		31 - 174	03/01/22 15:23	03/04/22 02:09	1
d3-NMePFOSA	53		10 - 155	03/01/22 15:23	03/04/22 02:09	1
d5-NEtFOSAA	76		29 - 195	03/01/22 15:23	03/04/22 02:09	1
d5-NEtPFOSA	59		10 - 159	03/01/22 15:23	03/04/22 02:09	1
d7-N-MeFOSE-M	62		10 - 178	03/01/22 15:23	03/04/22 02:09	1
d9-N-EtFOSE-M	58		10 - 177	03/01/22 15:23	03/04/22 02:09	1
M2-4:2 FTS	89		10 - 200	03/01/22 15:23	03/04/22 02:09	1
M2-6:2 FTS	83		17 - 200	03/01/22 15:23	03/04/22 02:09	1
M2-8:2 FTS	77		33 - 200	03/01/22 15:23	03/04/22 02:09	1

Lab Sample ID: LCS 410-228830/2-A
Matrix: Water
Analysis Batch: 229741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
10:2 Fluorotelomer carboxylic acid	25.6	21.62		ng/L		84	70 - 130
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	23.8	25.77		ng/L		108	53 - 139
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	24.7	32.60		ng/L		132	50 - 146
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	25.6	12.36	*	ng/L		48	70 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	25.6	23.93		ng/L		93	70 - 130
3-Perfluoropropylpropanoic acid (3:3 FTCA)	25.6	24.13		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	24.2	25.21		ng/L		104	55 - 143
4:2 Fluorotelomer sulfonic acid	23.9	24.61		ng/L		103	55 - 139

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QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-228830/2-A
Matrix: Water
Analysis Batch: 229741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
6:2 Fluorotelemer unsaturated acid	25.6	28.70		ng/L		112	70 - 130
6:2 Fluorotelomer carboxylic acid	25.6	17.86		ng/L		70	70 - 130
6:2 Fluorotelomer sulfonic acid	24.3	29.30		ng/L		121	28 - 173
8:2 Fluorotelemer unsaturated acid	25.6	29.31		ng/L		114	70 - 130
8:2 Fluorotelomer carboxylic acid	25.6	21.95		ng/L		86	70 - 130
8:2 Fluorotelomer sulfonic acid	24.5	28.22		ng/L		115	55 - 138
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	23.8	25.20		ng/L		106	59 - 135
EVE Acid	25.6	<3.00	*-	ng/L		6	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	25.6	24.90		ng/L		97	50 - 135
Hydro-EVE Acid	25.6	31.80		ng/L		124	70 - 130
Hydrolyzed PSDA	25.6	20.50		ng/L		80	70 - 130
Hydro-PS Acid	25.6	28.80		ng/L		112	70 - 130
MTP	25.6	45.06	*+	ng/L		176	70 - 130
Nafion Byproduct 1 (Nafion BP1)	25.6	<3.00	*-	ng/L		3	70 - 130
N-ethylperfluorooctane sulfonamide (NEtFOSA)	25.6	26.12		ng/L		102	61 - 134
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.6	25.97		ng/L		101	60 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.6	28.46		ng/L		111	55 - 134
N-methylperfluorooctane sulfonamide (NMeFOSA)	25.6	27.74		ng/L		108	64 - 143
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.6	25.53		ng/L		100	55 - 144
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.6	27.30		ng/L		107	59 - 140
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	25.6	24.69		ng/L		96	70 - 130
NVHOS	25.6	28.03		ng/L		109	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid	22.8	21.04		ng/L		92	70 - 130
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	25.6	26.47		ng/L		103	70 - 130
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	25.6	26.99		ng/L		105	70 - 130
Perfluoro(3,5-dioxaheptanoic) acid (PFO2HxA)	25.6	23.99		ng/L		94	70 - 130
Perfluoro-2-(perfluoroethoxy)propionic acid	25.6	30.36		ng/L		119	70 - 130
Perfluoro-2-methoxyacetic acid (PFMOAA)	25.6	33.79	*+	ng/L		132	70 - 130
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	25.6	27.20		ng/L		106	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	25.6	27.46		ng/L		107	70 - 130
Perfluoro-3-methoxypropanoic acid (PMPA)	25.6	29.00		ng/L		113	70 - 130
Perfluoro-4-ethylcyclohexanesulfonic acid	23.6	24.74		ng/L		105	70 - 130

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-228830/2-A
Matrix: Water
Analysis Batch: 229741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoro-4-isopropoxybutanoic acid (PFIPBA)	25.6	29.80		ng/L		116	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	25.6	24.71		ng/L		97	70 - 130
Perfluorobutanesulfonic acid	22.7	22.78		ng/L		101	53 - 138
Perfluorobutanoic acid	25.6	26.29		ng/L		103	59 - 136
Perfluorodecanesulfonic acid	24.7	23.71		ng/L		96	55 - 137
Perfluorodecanoic acid	25.6	24.57		ng/L		96	56 - 138
Perfluorododecanesulfonic acid	24.8	22.92		ng/L		93	48 - 138
Perfluorododecanoic acid	25.6	27.61		ng/L		108	59 - 143
Perfluoroheptanesulfonic acid	24.4	26.00		ng/L		107	56 - 140
Perfluoroheptanoic acid	25.6	29.63		ng/L		116	59 - 145
Perfluorohexadecanoic acid	25.6	24.21		ng/L		95	41 - 158
Perfluorohexanesulfonic acid	23.3	24.97		ng/L		107	58 - 134
Perfluorohexanoic acid	25.6	27.42		ng/L		107	58 - 139
Perfluorononanesulfonic acid	24.6	28.61		ng/L		116	59 - 136
Perfluorononanoic acid	25.6	27.71		ng/L		108	61 - 139
Perfluorooctadecanoic acid	25.6	23.00		ng/L		90	29 - 172
Perfluorooctanesulfonamide	25.6	29.41		ng/L		115	43 - 167
Perfluorooctanesulfonic acid	23.7	24.44		ng/L		103	45 - 150
Perfluorooctanoic acid	25.6	26.41		ng/L		103	51 - 145
Perfluoropentanesulfonic acid	24.0	25.56		ng/L		106	55 - 140
Perfluoropentanoic acid	25.6	24.14		ng/L		94	57 - 141
Perfluoropropanesulfonic acid	23.4	22.54		ng/L		96	70 - 130
Perfluoropropionic Acid (PFPrA)	25.6	31.86		ng/L		124	70 - 130
Perfluorotetradecanoic acid	25.6	26.99		ng/L		105	62 - 139
Perfluorotridecanoic acid	25.6	28.37		ng/L		111	58 - 146
Perfluoroundecanoic acid	25.6	26.74		ng/L		104	60 - 141
R-EVE	25.6	18.74		ng/L		73	70 - 130
R-PSDA	25.6	16.06	*	ng/L		63	70 - 130
R-PSDCA	25.6	25.98		ng/L		101	70 - 130

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	98		10 - 179
13C2-2H-Perfluoro-2-decenoic acid	74		21 - 166
13C2-2H-Perfluoro-2-dodecenoic acid	79		14 - 166
13C2-2H-Perfluoro-2-octenoic acid	78		20 - 173
13C2-2-Perfluorodecylethanoic acid	179		10 - 200
13C2-2-Perfluorohexylethanoic acid	194		10 - 200
13C2-2-Perfluorooctylethanoic acid	171		10 - 200
13C2-PFDoDA	99		17 - 176
13C3 HFPO-DA	88		17 - 185
13C3 PFBS	107		16 - 200
13C3 PFHxS	102		28 - 188
13C4 PFBA	99		42 - 165

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-228830/2-A
Matrix: Water
Analysis Batch: 229741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228830

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFHpA	98		31 - 182
13C5 PFHxA	94		24 - 179
13C5 PFPeA	107		38 - 187
13C6 PFDA	107		49 - 163
13C7 PFUnA	105		34 - 174
13C8 FOSA	82		10 - 168
13C8 PFOA	104		48 - 162
13C8 PFOS	104		51 - 159
13C9 PFNA	103		51 - 167
d3-NMeFOSAA	101		31 - 174
d3-NMePFOSA	41		10 - 155
d5-NEtFOSAA	105		29 - 195
d5-NEtPFOSA	43		10 - 159
d7-N-MeFOSE-M	77		10 - 178
d9-N-EtFOSE-M	74		10 - 177
M2-4:2 FTS	112		10 - 200
M2-6:2 FTS	95		17 - 200
M2-8:2 FTS	94		33 - 200

Lab Sample ID: 410-74261-2 MS
Matrix: Water
Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MS
Prep Type: Total/NA
Prep Batch: 228830

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
10:2 Fluoroteler unsaturated acid	<0.619	cn	23.3	24.80		ng/L		106	70 - 130
10:2 Fluorotelomer carboxylic acid	<0.442	cn	23.3	20.34		ng/L		87	70 - 130
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.442	cn	21.7	23.90		ng/L		110	53 - 139
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.884	cn	22.5	26.04		ng/L		116	50 - 146
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.265	F1 *- cn	23.3	12.48	F1	ng/L		54	70 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.177	cn	23.3	21.56		ng/L		92	70 - 130
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.265	cn	23.3	24.11		ng/L		103	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.442	cn	22.0	22.45		ng/L		102	55 - 143
4:2 Fluorotelomer sulfonic acid	<0.442	cn	21.8	24.33		ng/L		112	55 - 139
6:2 Fluoroteler unsaturated acid	<0.442	cn	23.3	26.25		ng/L		113	70 - 130
6:2 Fluorotelomer carboxylic acid	<0.354	cn	23.3	16.47		ng/L		71	70 - 130
6:2 Fluorotelomer sulfonic acid	<1.77	cn	22.1	23.35		ng/L		106	28 - 173
8:2 Fluoroteler unsaturated acid	<0.442	cn	23.3	25.02		ng/L		107	70 - 130
8:2 Fluorotelomer carboxylic acid	<0.354	cn	23.3	18.66		ng/L		80	70 - 130
8:2 Fluorotelomer sulfonic acid	<0.884	cn	22.3	25.16		ng/L		113	55 - 138

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-74261-2 MS

Matrix: Water

Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MS

Prep Type: Total/NA

Prep Batch: 228830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)	<0.442	cn	21.7	22.93		ng/L		106	59 - 135
EVE Acid	<2.65	F1 *- cn	23.3	5.666	J F1	ng/L		24	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.59	J cn	23.3	27.95		ng/L		109	50 - 135
Hydro-EVE Acid	<0.177	F1 cn	23.3	36.45	F1	ng/L		156	70 - 130
Hydrolyzed PSDA	<0.796	F1 cn	23.3	44.56	F1	ng/L		191	70 - 130
Hydro-PS Acid	<0.177	cn	23.3	25.70		ng/L		110	70 - 130
MTP	<1.77	F1 *+ cn	23.3	33.90	F1	ng/L		145	70 - 130
Nafion Byproduct 1 (Nafion BP1)	<2.65	F1 *- cn	23.3	3.271	J F1	ng/L		14	70 - 130
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.884	cn	23.3	27.23		ng/L		117	61 - 134
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<0.884	cn	23.3	24.98		ng/L		107	60 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.442	cn	23.3	23.90		ng/L		103	55 - 134
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.884	cn	23.3	26.59		ng/L		114	64 - 143
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.884	cn	23.3	24.09		ng/L		103	55 - 144
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.530	cn	23.3	24.45		ng/L		105	59 - 140
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<0.177	cn	23.3	22.42		ng/L		96	70 - 130
NVHOS	<0.177	cn	23.3	24.69		ng/L		106	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid	<0.177	cn	20.7	18.98		ng/L		92	70 - 130
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.619	cn	23.3	30.20		ng/L		130	70 - 130
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.177	F1 cn	23.3	31.79	F1	ng/L		136	70 - 130
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	<0.177	cn	23.3	28.23		ng/L		121	70 - 130
Perfluoro-2-(perfluoroethoxy)propionic acid	1.58	J F1 cn	23.3	36.56	F1	ng/L		150	70 - 130
Perfluoro-2-methoxyacetic acid (PFMOAA)	3.04	F1 *+ cn	23.3	44.42	F1	ng/L		178	70 - 130
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.77	F1 cn	23.3	31.17	F1	ng/L		134	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	15.9	F1 cn	23.3	46.42	F1	ng/L		131	70 - 130
Perfluoro-3-methoxypropanoic acid (PMPA)	3.80	F1 cn	23.3	36.27	F1	ng/L		139	70 - 130
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.177	cn	21.5	21.61		ng/L		101	70 - 130
Perfluoro-4-isopropoxybutanoic acid (PFIPABA)	0.399	J F1 cn	23.3	34.27	F1	ng/L		145	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.78	cn	23.3	28.60		ng/L		98	70 - 130
Perfluorobutanesulfonic acid	14.5	cn	20.6	35.53		ng/L		102	53 - 138
Perfluorobutanoic acid	550	E cn	23.3	563.6	E 4	ng/L		58	59 - 136
Perfluorodecanesulfonic acid	<0.442	cn	22.5	22.19		ng/L		99	55 - 137
Perfluorodecanoic acid	<0.442	cn	23.3	23.74		ng/L		102	56 - 138

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QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-74261-2 MS

Matrix: Water

Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MS

Prep Type: Total/NA

Prep Batch: 228830

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Perfluorododecanesulfonic acid	<0.442	cn	22.6	23.41		ng/L		104	48 - 138
Perfluorododecanoic acid	<0.442	cn	23.3	26.15		ng/L		112	59 - 143
Perfluoroheptanesulfonic acid	<0.442	cn	22.2	23.56		ng/L		106	56 - 140
Perfluoroheptanoic acid	3.94	cn	23.3	28.64		ng/L		106	59 - 145
Perfluorohexadecanoic acid	<0.884	cn	23.3	21.74		ng/L		93	41 - 158
Perfluorohexanesulfonic acid	3.55	cn	21.3	25.17		ng/L		102	58 - 134
Perfluorohexanoic acid	10.1	cn	23.3	36.46		ng/L		113	58 - 139
Perfluorononanesulfonic acid	<0.442	cn	22.4	24.84		ng/L		111	59 - 136
Perfluorononanoic acid	<0.442	cn	23.3	26.57		ng/L		114	61 - 139
Perfluorooctadecanoic acid	<0.884	cn	23.3	23.40		ng/L		100	29 - 172
Perfluorooctanesulfonamide	<0.442	cn	23.3	25.79		ng/L		111	43 - 167
Perfluorooctanesulfonic acid	4.52	cn	21.6	28.46		ng/L		111	45 - 150
Perfluorooctanoic acid	4.11	cn	23.3	29.32		ng/L		108	51 - 145
Perfluoropentanesulfonic acid	0.718	J cn	21.9	23.05		ng/L		102	55 - 140
Perfluoropentanoic acid	48.4	cn	23.3	69.55		ng/L		91	57 - 141
Perfluoropropanesulfonic acid	2.31	cn	21.3	28.23		ng/L		121	70 - 130
Perfluoropropionic Acid (PFPrA)	2540	E cn	23.3	2446	E 4	ng/L		-389	70 - 130
Perfluorotetradecanoic acid	<0.442	cn	23.3	24.94		ng/L		107	62 - 139
Perfluorotridecanoic acid	<0.442	cn	23.3	24.06		ng/L		103	58 - 146
Perfluoroundecanoic acid	<0.442	cn	23.3	24.67		ng/L		106	60 - 141
R-EVE	<0.354	F1 cn	23.3	51.35	F1	ng/L		220	70 - 130
R-PSDA	<0.442	F1 *- cn	23.3	41.44	F1	ng/L		178	70 - 130
R-PSDCA	<0.177	cn	23.3	24.31		ng/L		104	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2 PFTeDA	100		10 - 179
13C2-2H-Perfluoro-2-decenoic acid	69		21 - 166
13C2-2H-Perfluoro-2-dodecenoic acid	70		14 - 166
13C2-2H-Perfluoro-2-octenoic acid	66		20 - 173
13C2-2-Perfluorodecylethanoic acid	155		10 - 200
13C2-2-Perfluorohexylethanoic acid	163		10 - 200
13C2-2-Perfluorooctylethanoic acid	158		10 - 200
13C2-PFD _o DA	90		17 - 176
13C3 HFPO-DA	74		17 - 185
13C3 PFBS	132		16 - 200
13C3 PFHxS	94		28 - 188
13C4 PFBA	94		42 - 165
13C4 PFHpA	89		31 - 182
13C5 PFHxA	81		24 - 179
13C5 PFPeA	123		38 - 187
13C6 PFDA	94		49 - 163
13C7 PFUnA	93		34 - 174
13C8 FOSA	84		10 - 168
13C8 PFOA	92		48 - 162

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-74261-2 MS
Matrix: Water
Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MS
Prep Type: Total/NA
Prep Batch: 228830

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C8 PFOS	92		51 - 159
13C9 PFNA	94		51 - 167
d3-NMeFOSAA	90		31 - 174
d3-NMePFOSA	55		10 - 155
d5-NEtFOSAA	98		29 - 195
d5-NEtPFOSA	58		10 - 159
d7-N-MeFOSE-M	80		10 - 178
d9-N-EtFOSE-M	74		10 - 177
M2-4:2 FTS	92		10 - 200
M2-6:2 FTS	101		17 - 200
M2-8:2 FTS	97		33 - 200

Lab Sample ID: 410-74261-2 MSD
Matrix: Water
Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MSD
Prep Type: Total/NA
Prep Batch: 228830

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
10:2 Fluorotelemer unsaturated acid	<0.619	cn	22.4	24.45		ng/L		109	70 - 130	1	30
10:2 Fluorotelomer carboxylic acid	<0.442	cn	22.4	17.12		ng/L		76	70 - 130	17	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.442	cn	20.8	21.67		ng/L		104	53 - 139	10	30
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	<0.884	cn	21.6	26.34		ng/L		122	50 - 146	1	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.265	F1 *- cn	22.4	11.40	F1	ng/L		51	70 - 130	9	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.177	cn	22.4	23.03		ng/L		103	70 - 130	7	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.265	cn	22.4	21.21		ng/L		95	70 - 130	13	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.442	cn	21.2	22.88		ng/L		108	55 - 143	2	30
4:2 Fluorotelomer sulfonic acid	<0.442	cn	20.9	23.55		ng/L		113	55 - 139	3	30
6:2 Fluorotelemer unsaturated acid	<0.442	cn	22.4	25.83		ng/L		115	70 - 130	2	30
6:2 Fluorotelomer carboxylic acid	<0.354	cn	22.4	17.24		ng/L		77	70 - 130	5	30
6:2 Fluorotelomer sulfonic acid	<1.77	cn	21.2	23.77		ng/L		112	28 - 173	2	30
8:2 Fluorotelemer unsaturated acid	<0.442	cn	22.4	25.94		ng/L		116	70 - 130	4	30
8:2 Fluorotelomer carboxylic acid	<0.354	cn	22.4	20.79		ng/L		93	70 - 130	11	30
8:2 Fluorotelomer sulfonic acid	<0.884	cn	21.5	22.93		ng/L		107	55 - 138	9	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.442	cn	20.8	20.48		ng/L		98	59 - 135	11	30
EVE Acid	<2.65	F1 *- cn	22.4	5.768	J F1	ng/L		26	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.59	J cn	22.4	23.23		ng/L		92	50 - 135	18	30
Hydro-EVE Acid	<0.177	F1 cn	22.4	34.89	F1	ng/L		156	70 - 130	4	30
Hydrolyzed PSDA	<0.796	F1 cn	22.4	43.23	F1	ng/L		193	70 - 130	3	30
Hydro-PS Acid	<0.177	cn	22.4	25.42		ng/L		114	70 - 130	1	30

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QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-74261-2 MSD

Matrix: Water

Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MSD

Prep Type: Total/NA

Prep Batch: 228830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MTP	<1.77	F1 *+ cn	22.4	30.60	F1	ng/L		137	70 - 130	10	30
Nafion Byproduct 1 (Nafion BP1)	<2.65	F1 *- cn	22.4	3.438	J F1	ng/L		15	70 - 130	5	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.884	cn	22.4	23.42		ng/L		105	61 - 134	15	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<0.884	cn	22.4	22.35		ng/L		100	60 - 136	11	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.442	cn	22.4	23.54		ng/L		105	55 - 134	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.884	cn	22.4	23.88		ng/L		107	64 - 143	11	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<0.884	cn	22.4	22.95		ng/L		102	55 - 144	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.530	cn	22.4	24.45		ng/L		109	59 - 140	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.177	cn	22.4	22.77		ng/L		102	70 - 130	2	30
NVHOS	<0.177	cn	22.4	23.47		ng/L		105	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid	<0.177	cn	19.9	19.05		ng/L		96	70 - 130	0	30
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	<0.619	cn	22.4	28.05		ng/L		125	70 - 130	7	30
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	<0.177	F1 cn	22.4	28.90		ng/L		129	70 - 130	10	30
Perfluoro(3,5-dioxaheptanoic) acid (PFO2HxA)	<0.177	cn	22.4	26.05		ng/L		116	70 - 130	8	30
Perfluoro-2-(perfluoroethoxy)propionic acid	1.58	J F1 cn	22.4	32.99	F1	ng/L		140	70 - 130	10	30
Perfluoro-2-methoxyacetic acid (PFMOAA)	3.04	F1 *+ cn	22.4	40.67	F1	ng/L		168	70 - 130	9	30
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	<1.77	F1 cn	22.4	26.98		ng/L		120	70 - 130	14	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	15.9	F1 cn	22.4	44.25		ng/L		126	70 - 130	5	30
Perfluoro-3-methoxypropanoic acid (PMPA)	3.80	F1 cn	22.4	34.04	F1	ng/L		135	70 - 130	6	30
Perfluoro-4-ethylcyclohexanesulfonic acid	<0.177	cn	20.6	21.76		ng/L		105	70 - 130	1	30
Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)	0.399	J F1 cn	22.4	32.27	F1	ng/L		142	70 - 130	6	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.78	cn	22.4	27.77		ng/L		98	70 - 130	3	30
Perfluorobutanesulfonic acid	14.5	cn	19.8	34.53		ng/L		101	53 - 138	3	30
Perfluorobutanoic acid	550	E cn	22.4	551.7	E 4	ng/L		7	59 - 136	2	30
Perfluorodecanesulfonic acid	<0.442	cn	21.6	20.91		ng/L		97	55 - 137	6	30
Perfluorodecanoic acid	<0.442	cn	22.4	22.64		ng/L		101	56 - 138	5	30
Perfluorododecanesulfonic acid	<0.442	cn	21.7	19.93		ng/L		92	48 - 138	16	30
Perfluorododecanoic acid	<0.442	cn	22.4	24.52		ng/L		109	59 - 143	6	30
Perfluoroheptanesulfonic acid	<0.442	cn	21.3	23.41		ng/L		110	56 - 140	1	30
Perfluoroheptanoic acid	3.94	cn	22.4	28.20		ng/L		108	59 - 145	2	30
Perfluorohexadecanoic acid	<0.884	cn	22.4	23.80		ng/L		106	41 - 158	9	30
Perfluorohexanesulfonic acid	3.55	cn	20.4	25.91		ng/L		109	58 - 134	3	30
Perfluorohexanoic acid	10.1	cn	22.4	32.71		ng/L		101	58 - 139	11	30
Perfluorononanesulfonic acid	<0.442	cn	21.5	22.14		ng/L		103	59 - 136	12	30

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-74261-2 MSD

Matrix: Water

Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MSD

Prep Type: Total/NA

Prep Batch: 228830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorononanoic acid	<0.442	cn	22.4	22.26		ng/L		99	61 - 139	18	30
Perfluorooctadecanoic acid	<0.884	cn	22.4	26.57		ng/L		119	29 - 172	13	30
Perfluorooctanesulfonamide	<0.442	cn	22.4	25.29		ng/L		113	43 - 167	2	30
Perfluorooctanesulfonic acid	4.52	cn	20.7	24.76		ng/L		98	45 - 150	14	30
Perfluorooctanoic acid	4.11	cn	22.4	27.07		ng/L		103	51 - 145	8	30
Perfluoropentanesulfonic acid	0.718	J cn	21.0	22.24		ng/L		102	55 - 140	4	30
Perfluoropentanoic acid	48.4	cn	22.4	69.04		ng/L		92	57 - 141	1	30
Perfluoropropanesulfonic acid	2.31	cn	20.5	26.76		ng/L		119	70 - 130	5	30
Perfluoropropionic Acid (PFPrA)	2540	E cn	22.4	2328	E 4	ng/L		-927	70 - 130	5	30
Perfluorotetradecanoic acid	<0.442	cn	22.4	26.28		ng/L		117	62 - 139	5	30
Perfluorotridecanoic acid	<0.442	cn	22.4	24.47		ng/L		109	58 - 146	2	30
Perfluoroundecanoic acid	<0.442	cn	22.4	23.75		ng/L		106	60 - 141	4	30
R-EVE	<0.354	F1 cn	22.4	42.92	F1	ng/L		192	70 - 130	18	30
R-PSDA	<0.442	F1 *- cn	22.4	36.62	F1	ng/L		164	70 - 130	12	30
R-PSDCA	<0.177	cn	22.4	22.94		ng/L		102	70 - 130	6	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	MSD Limits
13C2 PFTeDA	83		10 - 179
13C2-2H-Perfluoro-2-decenoic acid	59		21 - 166
13C2-2H-Perfluoro-2-dodecenoic acid	62		14 - 166
13C2-2H-Perfluoro-2-octenoic acid	55		20 - 173
13C2-2-Perfluorodecylethanoic acid	138		10 - 200
13C2-2-Perfluorohexylethanoic acid	139		10 - 200
13C2-2-Perfluorooctylethanoic acid	132		10 - 200
13C2-PFDoDA	81		17 - 176
13C3 HFPO-DA	71		17 - 185
13C3 PFBS	106		16 - 200
13C3 PFHxS	76		28 - 188
13C4 PFBA	79		42 - 165
13C4 PFHpA	75		31 - 182
13C5 PFHxA	74		24 - 179
13C5 PFPeA	99		38 - 187
13C6 PFDA	81		49 - 163
13C7 PFUnA	84		34 - 174
13C8 FOSA	72		10 - 168
13C8 PFOA	81		48 - 162
13C8 PFOS	75		51 - 159
13C9 PFNA	77		51 - 167
d3-NMeFOSAA	77		31 - 174
d3-NMePFOSA	53		10 - 155
d5-NEtFOSAA	87		29 - 195
d5-NEtPFOSA	54		10 - 159
d7-N-MeFOSE-M	74		10 - 178
d9-N-EtFOSE-M	71		10 - 177

QC Sample Results

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-74261-2 MSD

Matrix: Water

Analysis Batch: 229741

Client Sample ID: DPT-21-GW-MSD

Prep Type: Total/NA

Prep Batch: 228830

<i>Isotope Dilution</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>M2-4:2 FTS</i>	79		10 - 200
<i>M2-6:2 FTS</i>	80		17 - 200
<i>M2-8:2 FTS</i>	83		33 - 200

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QC Association Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

LCMS

Prep Batch: 228830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74261-1 - DL	DPT-28-GW	Total/NA	Water	3535	
410-74261-1	DPT-28-GW	Total/NA	Water	3535	
410-74261-2	DPT-21-GW	Total/NA	Water	3535	
410-74261-2 - DL	DPT-21-GW	Total/NA	Water	3535	
410-74261-3 - RA	DPT-22-GW	Total/NA	Water	3535	
410-74261-3 - DL	DPT-22-GW	Total/NA	Water	3535	
410-74261-3	DPT-22-GW	Total/NA	Water	3535	
410-74261-4 - DL	DPT-23-GW	Total/NA	Water	3535	
410-74261-4 - RA	DPT-23-GW	Total/NA	Water	3535	
410-74261-4	DPT-23-GW	Total/NA	Water	3535	
410-74261-5 - DL	DPT-24-GW	Total/NA	Water	3535	
410-74261-5	DPT-24-GW	Total/NA	Water	3535	
410-74261-5 - RA	DPT-24-GW	Total/NA	Water	3535	
410-74261-6	Field Blank-GW	Total/NA	Water	3535	
410-74261-7	Equipment Blank-GW	Total/NA	Water	3535	
410-74261-8	Trip Blank	Total/NA	Water	3535	
MB 410-228830/1-A	Method Blank	Total/NA	Water	3535	
LCS 410-228830/2-A	Lab Control Sample	Total/NA	Water	3535	
410-74261-2 MS	DPT-21-GW-MS	Total/NA	Water	3535	
410-74261-2 MSD	DPT-21-GW-MSD	Total/NA	Water	3535	

Analysis Batch: 229741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74261-1	DPT-28-GW	Total/NA	Water	537 IDA	228830
410-74261-2	DPT-21-GW	Total/NA	Water	537 IDA	228830
410-74261-3	DPT-22-GW	Total/NA	Water	537 IDA	228830
410-74261-4	DPT-23-GW	Total/NA	Water	537 IDA	228830
410-74261-5	DPT-24-GW	Total/NA	Water	537 IDA	228830
410-74261-6	Field Blank-GW	Total/NA	Water	537 IDA	228830
410-74261-7	Equipment Blank-GW	Total/NA	Water	537 IDA	228830
410-74261-8	Trip Blank	Total/NA	Water	537 IDA	228830
MB 410-228830/1-A	Method Blank	Total/NA	Water	537 IDA	228830
LCS 410-228830/2-A	Lab Control Sample	Total/NA	Water	537 IDA	228830
410-74261-2 MS	DPT-21-GW-MS	Total/NA	Water	537 IDA	228830
410-74261-2 MSD	DPT-21-GW-MSD	Total/NA	Water	537 IDA	228830

Analysis Batch: 230132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74261-1 - DL	DPT-28-GW	Total/NA	Water	537 IDA	228830
410-74261-2 - DL	DPT-21-GW	Total/NA	Water	537 IDA	228830
410-74261-3 - RA	DPT-22-GW	Total/NA	Water	537 IDA	228830
410-74261-4 - RA	DPT-23-GW	Total/NA	Water	537 IDA	228830
410-74261-4 - DL	DPT-23-GW	Total/NA	Water	537 IDA	228830
410-74261-5 - RA	DPT-24-GW	Total/NA	Water	537 IDA	228830
410-74261-5 - DL	DPT-24-GW	Total/NA	Water	537 IDA	228830

Analysis Batch: 230478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74261-3 - DL	DPT-22-GW	Total/NA	Water	537 IDA	228830

Lab Chronicle

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-28-GW

Lab Sample ID: 410-74261-1

Date Collected: 02/21/22 14:45

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 02:42	QD9Y	ELLE
Total/NA	Prep	3535	DL		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	DL	10	230132	03/04/22 10:42	JVK6	ELLE

Client Sample ID: DPT-21-GW

Lab Sample ID: 410-74261-2

Date Collected: 02/21/22 17:00

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 02:53	QD9Y	ELLE
Total/NA	Prep	3535	DL		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	DL	10	230132	03/04/22 10:54	JVK6	ELLE

Client Sample ID: DPT-22-GW

Lab Sample ID: 410-74261-3

Date Collected: 02/22/22 12:20

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 03:27	QD9Y	ELLE
Total/NA	Prep	3535	RA		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	RA	1	230132	03/04/22 11:05	JVK6	ELLE
Total/NA	Prep	3535	DL		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	DL	10	230478	03/05/22 22:33	JVK6	ELLE

Client Sample ID: DPT-23-GW

Lab Sample ID: 410-74261-4

Date Collected: 02/23/22 13:00

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 03:38	QD9Y	ELLE
Total/NA	Prep	3535	RA		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	RA	1	230132	03/04/22 11:39	JVK6	ELLE
Total/NA	Prep	3535	DL		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	DL	10	230132	03/04/22 11:50	JVK6	ELLE

Client Sample ID: DPT-24-GW

Lab Sample ID: 410-74261-5

Date Collected: 02/23/22 10:25

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 03:49	QD9Y	ELLE

Lab Chronicle

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Client Sample ID: DPT-24-GW

Lab Sample ID: 410-74261-5

Date Collected: 02/23/22 10:25

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	RA		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	RA	1	230132	03/04/22 12:01	JVK6	ELLE
Total/NA	Prep	3535	DL		228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA	DL	10	230132	03/04/22 12:12	JVK6	ELLE

Client Sample ID: Field Blank-GW

Lab Sample ID: 410-74261-6

Date Collected: 02/22/22 10:28

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 04:00	QD9Y	ELLE

Client Sample ID: Equipment Blank-GW

Lab Sample ID: 410-74261-7

Date Collected: 02/23/22 12:05

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 04:11	QD9Y	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-74261-8

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/25/22 11:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			228830	03/01/22 15:23	QLP7	ELLE
Total/NA	Analysis	537 IDA		1	229741	03/04/22 04:33	QD9Y	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200027	01-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	3535	Water	10:2 Fluorotelemer unsaturated acid
537 IDA	3535	Water	10:2 Fluorotelomer carboxylic acid
537 IDA	3535	Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
537 IDA	3535	Water	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)
537 IDA	3535	Water	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
537 IDA	3535	Water	3-Perfluoropentylpropanoic acid (5:3 FTCA)
537 IDA	3535	Water	3-Perfluoropropylpropanoic acid (3:3 FTCA)
537 IDA	3535	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 IDA	3535	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	3535	Water	6:2 Fluorotelemer unsaturated acid
537 IDA	3535	Water	6:2 Fluorotelomer carboxylic acid
537 IDA	3535	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	3535	Water	8:2 Fluorotelemer unsaturated acid
537 IDA	3535	Water	8:2 Fluorotelomer carboxylic acid
537 IDA	3535	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	3535	Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)
537 IDA	3535	Water	EVE Acid
537 IDA	3535	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
537 IDA	3535	Water	Hydro-EVE Acid
537 IDA	3535	Water	Hydrolyzed PSDA
537 IDA	3535	Water	Hydro-PS Acid
537 IDA	3535	Water	MTP
537 IDA	3535	Water	Nafion Byproduct 1 (Nafion BP1)
537 IDA	3535	Water	N-ethylperfluorooctane sulfonamide (NEtFOSA)
537 IDA	3535	Water	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
537 IDA	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 IDA	3535	Water	N-methylperfluorooctane sulfonamide (NMeFOSA)
537 IDA	3535	Water	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
537 IDA	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 IDA	3535	Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
537 IDA	3535	Water	NVHOS
537 IDA	3535	Water	Perfluoro (2-ethoxyethane) sulfonic acid
537 IDA	3535	Water	Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)

Accreditation/Certification Summary

Client: Eastern Research Group, Inc.
 Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
537 IDA	3535	Water	Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)
537 IDA	3535	Water	Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)
537 IDA	3535	Water	Perfluoro-2-(perfluoroethoxy)propionic acid
537 IDA	3535	Water	Perfluoro-2-methoxyacetic acid (PFMOAA)
537 IDA	3535	Water	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid
537 IDA	3535	Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
537 IDA	3535	Water	Perfluoro-3-methoxypropanoic acid (PMPA)
537 IDA	3535	Water	Perfluoro-4-ethylcyclohexanesulfonic acid
537 IDA	3535	Water	Perfluoro-4-isopropoxybutanoic acid (PFIPoBA)
537 IDA	3535	Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
537 IDA	3535	Water	Perfluorobutanesulfonic acid
537 IDA	3535	Water	Perfluorobutanoic acid
537 IDA	3535	Water	Perfluorodecanesulfonic acid
537 IDA	3535	Water	Perfluorodecanoic acid
537 IDA	3535	Water	Perfluorododecanesulfonic acid
537 IDA	3535	Water	Perfluorododecanoic acid
537 IDA	3535	Water	Perfluoroheptanesulfonic acid
537 IDA	3535	Water	Perfluoroheptanoic acid
537 IDA	3535	Water	Perfluorohexadecanoic acid
537 IDA	3535	Water	Perfluorohexanesulfonic acid
537 IDA	3535	Water	Perfluorohexanoic acid
537 IDA	3535	Water	Perfluorononanesulfonic acid
537 IDA	3535	Water	Perfluorononanoic acid
537 IDA	3535	Water	Perfluorooctadecanoic acid
537 IDA	3535	Water	Perfluorooctanesulfonamide
537 IDA	3535	Water	Perfluorooctanesulfonic acid
537 IDA	3535	Water	Perfluorooctanoic acid
537 IDA	3535	Water	Perfluoropentanesulfonic acid
537 IDA	3535	Water	Perfluoropentanoic acid
537 IDA	3535	Water	Perfluoropropanesulfonic acid
537 IDA	3535	Water	Perfluoropropionic Acid (PFPrA)
537 IDA	3535	Water	Perfluorotetradecanoic acid
537 IDA	3535	Water	Perfluorotridecanoic acid
537 IDA	3535	Water	Perfluoroundecanoic acid
537 IDA	3535	Water	R-EVE
537 IDA	3535	Water	R-PSDA
537 IDA	3535	Water	R-PSDCA

Method Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
3535	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: Eastern Research Group, Inc.
Project/Site: Groundwater PFAS testing

Job ID: 410-74261-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-74261-1	DPT-28-GW	Water	02/21/22 14:45	02/25/22 11:19
410-74261-2	DPT-21-GW	Water	02/21/22 17:00	02/25/22 11:19
410-74261-3	DPT-22-GW	Water	02/22/22 12:20	02/25/22 11:19
410-74261-4	DPT-23-GW	Water	02/23/22 13:00	02/25/22 11:19
410-74261-5	DPT-24-GW	Water	02/23/22 10:25	02/25/22 11:19
410-74261-6	Field Blank-GW	Water	02/22/22 10:28	02/25/22 11:19
410-74261-7	Equipment Blank-GW	Water	02/23/22 12:05	02/25/22 11:19
410-74261-8	Trip Blank	Water	02/21/22 00:00	02/25/22 11:19

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Revision No. 2
Date: November 29, 2021



410-74261 Chain of Custody

QAPP for 3M Cordova
Sampling Activities

		CHAIN OF CUSTODY Page 1 of 1										MATRIX CODES			
QC 702 Electronic Drive Horsham, PA 19044-0952 Phone: 215-355-3900 Fax: 215-355-7231		Bill to/Report to (if different): Sara Bossenbroek Sampling Site Address (if different) Include State: 100 N Main St. Des Moines, IA P.O. No. _____ PWSID # _____ Quote # _____ e-mail: SCVA.bossenbroek.erg.com										Lab LIMS No: _____ LAB USE ONLY: # ___ Ascorbic/HCL Vials # ___ HCl Vials # ___ Na ₂ S ₂ O ₃ _____ # ___ Na OH/Zn acetate pH _____ # ___ HNO ₃ pH _____ # ___ H ₂ SO ₄ pH _____ # ___ NaOH pH _____ # ___ Unpreserved _____ # ___ HCl # ___ NH ₄ Cl # ___ MeOH _____ # ___ DI Water _____		DW: DRINKING WATER GW: GROUND WATER WW: WASTEWATER SO: SOIL SL: SLUDGE OIL: OIL SOL: NON SOIL SOLID MI: MISCELLANEOUS X OTHER _____	
Client/Accl. No. ERG Address 14555 Avion PEWY City/State/Zip Chantilly, VA 20151 Phone/Fax _____ Client Contact _____		PROJECT: _____ Collection: _____ FIELD ID: _____ Date: _____ Military Time: _____ G R A B C D M P Matrix Code: _____ Total: _____ Number of Containers: H ₂ SO ₄ HCl Vials HNO ₃ NaOH ZrPAC UREPER BACT										ANALYSIS REQUESTED PFAS, 70 Analytes Field pH, Temp (°C), DO, Cl ₂ , Cond. etc			
SAMPLED BY: (Name/Company) Andrew Jennings EART		TAT <input checked="" type="checkbox"/> STANDARD (10 DAY) or DUE DATE: / /		Report Format <input type="checkbox"/> Standard <input type="checkbox"/> NJ-RDD <input type="checkbox"/> SRP-RDD <input type="checkbox"/> Standard + QC <input type="checkbox"/> Forms <input type="checkbox"/> EDD						Field Parameters Analyzed By: Initials: _____ Date/Time: _____					
* SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)															
RELINQUISHED BY SAMPLER		DATE	TIME	RECEIVED BY	DATE	TIME	DELIVERY	<input type="checkbox"/> ECO	<input type="checkbox"/> COURIER	<input type="checkbox"/> CLIENT	Custody Seal Number				
1. Andrew Jennings		2/23/22	1645	1.											
2.				2.											
3.				3.											
4.				4.											
5.				5.	2/23/22	1119									
Rec'd Temp.: _____ Initials: _____ Ice Y/N Location: _____ COMMENTS: 1.5										Hazardous: yes/no					

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Login Sample Receipt Checklist

Client: Eastern Research Group, Inc.

Job Number: 410-74261-1

Login Number: 74261

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	